

10/540,993

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STRUCTURE FILE UPDATES: 27 JUL 2008 HIGHEST RN 1036536-16-9
DICTIONARY FILE UPDATES: 27 JUL 2008 HIGHEST RN 1036536-16-9

New CAA Information Page
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TSCA INFORMATION NOW CURRENT THROUGH January 9, 2008.

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=> s 11
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100.0% PROCESSED 447 ITERATIONS 50 ANSWERS
INCOMPLETE SEARCH (SYSTEM LIMIT EXCEEDED)
SEARCH TIME: 00.00.01

FULL FILE PROJECTIONS: ONLINE **COMPLETE**
PROJECTION ITERATIONS: 7672 TO 10208
PROJECTION ANSWERS: 1692 TO 2988

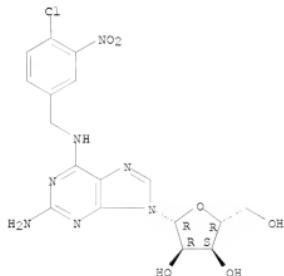
12 50 SEA SSS SAM LI

10/540,993

=> d scan

L2 50 ANSWERS REGISTRY COPYRIGHT 2008 ACS on STN
IN Adenosine, 2-amino-N-[(4-chloro-3-nitrophenyl)methyl]- (9CI)
MF C17 H18 Cl N7 O6

Absolute stereochemistry.

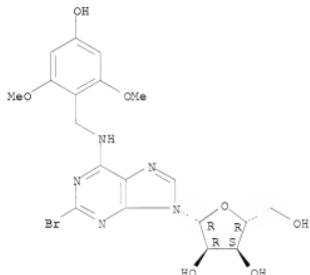


PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

HOW MANY MORE ANSWERS DO YOU WISH TO SCAN? (1):5

L2 50 ANSWERS REGISTRY COPYRIGHT 2008 ACS on STN
IN Adenosine, 2-bromo-2-(4-hydroxy-2,6-dimethoxyphenyl)- (9CI)
MF C19 H22 Br N5 O7

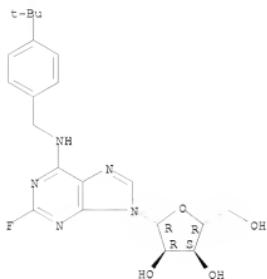
Absolute stereochemistry.



PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

L2 50 ANSWERS REGISTRY COPYRIGHT 2008 ACS on STN
IN Adenosine, N-[(4-(1,1-dimethylethyl)phenyl)methyl]-2-fluoro- (9CI)
MF C21 H26 F N5 O4

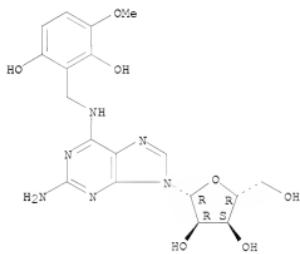
Absolute stereochemistry.



PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

L2 50 ANSWERS REGISTRY COPYRIGHT 2008 ACS on STN
 IN Adenosine, 2-amino-N-[(2,6-dihydroxy-3-methoxyphenyl)methyl]- (9CI)
 MF C18 H22 N6 O7

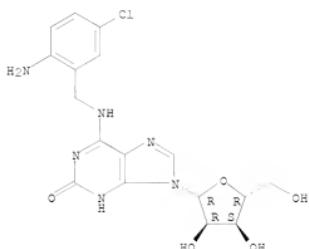
Absolute stereochemistry.



PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

L2 50 ANSWERS REGISTRY COPYRIGHT 2008 ACS on STN
 IN Adenosine, N-[(2-amino-5-chlorophenyl)methyl]-1,2-dihydro-2-oxo- (9CI)
 MF C17 H19 Cl N6 O5

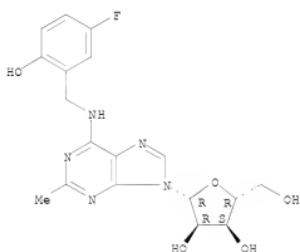
Absolute stereochemistry.



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L2 50 ANSWERS REGISTRY COPYRIGHT 2008 ACS on STN
 IN Adenosine, N-[({5-fluoro-2-hydroxyphenyl)methyl]-2-methyl- (9CI)
 MF C18 H20 F NS O5

Absolute stereochemistry.



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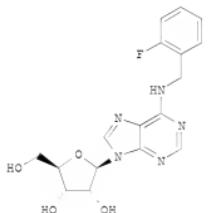
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$\Rightarrow \theta = 2\pi/3$

L3 ANSWER 1 OF 5 CAPLUS COPYRIGHT 2008 ACS on STN
AN 2007:474159 CAPLUS
DN 1471:143613
TI Preparation, biological activity and endogenous occurrence of
N6-benzyladenosines
AU Dolcer, Karel; Popa, Igor; Hauserova, Eva; Spichal, Lukas; Charkrabarty,
Kuheli, Novak, Ondrej; Krystof, Vladimir; Voller, Jiri; Holub, Jan;
Strnad, Miroslav
CS Laboratory of Growth Regulators, Palacky University & Institute of
Experimental Botany AS CR, Olomouc, 783 71, Czech Rep.
SO Bioorganic & Medicinal Chemistry (2007), 15(11), 3737-3747
CODEN: BMCECP; ISSN: 0968-0896
PB Elsevier Ltd.
DT Journal
LA English
OS CASREACT 147:143613
GT



AB Cytokinin activity of forty-eight 6-benzyladenosine derivs., e.g. I, at both the receptor and cellular levels as well as their anticancer

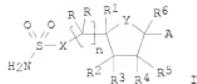
properties were compared in various in vitro assays. The compds. were prepared by the condensation of 6-chloropurine riboside with corresponding substituted benzylamines and characterized by standard collection of physico-chemical methods. The majority of synthesized derivs. exhibited high activity in all three of the cytokinin bioassays used (tobacco callus, wheat leaf senescence and Amaranthus bioassay). The highest activities were observed in the senescence bioassay. For several of the compds. tested, significant differences in activity were found between the bioassays used, indicating that diverse recognition systems may operate. This suggests that it may be possible to modulate particular cytokinin-dependent processes with specific compds. In contrast to their high activity in bioassays, the tested compds. were recognized with only very low sensitivity in both Arabidopsis thaliana AHX3 and AHX4 receptor assays. The prepared derivs. were also investigated for their antiproliferative properties on cancer and normal cell lines. Several of them showed very strong cytotoxic activity against various cancer cell lines. On the other hand, they were not cytotoxic for normal murine fibroblast (NIH/3T3) cell line. This anticancer activity of cytokinin ribosides may be important, given that several of them occur as endogenous compds. in different organisms.

RE.CNT 35 THERE ARE 35 CITED REFERENCES AVAILABLE FOR THIS RECORD
ALL CITATIONS AVAILABLE IN THE RE FORMAT

=> d bib abs 2-5

L3 ANSWER 2 OF 5 CAPLUS COPYRIGHT 2008 ACS on STN
AN 2006:796168 CAPLUS
DN 145:230849
TI Preparation of nucleoside derivatives as inhibitors of El activating enzymes
IN Critchley, Stephen; Gant, Thomas G.; Langston, Steven P.; Olahava, Edward J.; Feluso, Stephane
PA Millennium Pharmaceuticals, Inc., USA
SO PCT Int. Appl., 214pp.
CODEN: PIXXD2
DT Patent
LA English
FAN.CNT 1
PATENT NO. KIND DATE APPLICATION NO. DATE

PI WO 2006084281 A1 20060810 WO 2006-US4637 20060202
W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BW, BY, BZ, CA, CH,
CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, EG, ES, FI, GB, GD,
GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KM, KN, KP, KR,
KZ, LC, LK, LR, LS, LT, LU, LV, LY, MA, MD, MG, MR, MN, MW, MX,
MZ, NA, NG, NI, NO, NZ, OM, PG, PH, PL, PT, RO, RU, SC, SD, SE,
SG, SK, SL, SM, SY, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC,
VN, YU, ZA, ZM, ZW
RW: AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE,
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KG, KZ, MD, RU, TJ, TM
AU 2006210422 A1 20060810 AU 2006-210422 20060202
CA 2596424 A1 20060810 CA 2006-2596424 20060202
US 20060189636 A1 20060824 US 2006-346469 20060202
EP 1848718 A1 20071031 EP 2006-734691 20060202
R: AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE,
IS, IT, LI, LT, LU, LV, MC, NL, PL, PT, RO, SE, SI, SK, TR, AL,
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IN 2007DN06144 A 20070831 IN 2007-DN6144 20070807
PRAI US 2005-650433P P 20050204
WO 2006-US4637 W 20060202
OS MARPAT 145:230849
GI



AB Nucleoside derivs. I, wherein A is substituted purine derivs.; X is CH₂, CHF, CF₂, NH, O; Y is O, S, substituted carbon; each R is independently H, F, aliphatic, fluoro-aliphatic; two R, taken together with the carbon atom to which they are attached, form a 3- to 6-membered carbocyclic ring; or one R, taken together with R1 and the intervening carbon atoms, forms a 3- to 6-membered spiro-cyclic ring; or two R together form O; R1 is H or aliphatic; R and R1 taken together with the intervening carbon atoms form a 3- to 6-membered spiro-cyclic ring; R2 and R5 are independently is H, F, CN, M3, OH alkoxy, substituted hydrazine, carbamate, amide, acyl, oxy-amide, ester, oxy-carboxylate, fluoro-aliphatic, aliphatic; R3 is H, F, aliphatic, fluoro-aliphatic; R4 is H, F, aliphatic, fluoro-aliphatic; R6 is H, aliphatic; n is 1-3 were prepared as inhibitors of El activating enzymes and useful for treating disorders, particularly cell proliferation disorders, including cancers, inflammatory and neurodegenerative disorders, and inflammation associated with infection and cachexia. Thus, [(2R,3S,4R)-5-[6-(1S)-2,3-dihydro-1H-inden-1-ylamino]-9H-purin-9-yl]-3,4-dihydroxytetrahydrofuran-2-yl)methyl sulfonate was prepared and tested in vitro and in mice as inhibitor of El activating enzyme. The compds. are designed to be inhibitors of Nedds-activating enzyme (APPBP1-Uba3) (NAE), Ublactivating enzyme (UAB), and/or activating enzyme (Aesi-Uba2) (AE).

RE.CNT 3 THERE ARE 3 CITED REFERENCES AVAILABLE FOR THIS RECORD
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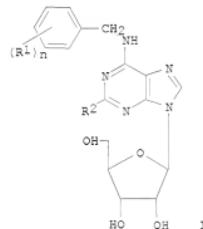
L3 ANSWER 3 OF 5 CAPLUS COPYRIGHT 2008 ACS on STN
AN 2004:634314 CAPLUS
DN 141:296236
TI 2-Pyrazolyl-N6-Substituted Adenosine Derivatives as High Affinity and Selective Adenosine A3 Receptor Agonists
AU Elzein, Elfatih; Palle, Venkata; Wu, Yuzhi; Ma, Tenning; Zeng, Dewan; Zablocki, Jeff
CS Department of Bioorganic Chemistry and Department of Drug Research and Pharmacological Sciences, CV Therapeutics Inc., Palo Alto, CA, 94304, USA
SO Journal of Medicinal Chemistry (2004), 47(19), 4766-4773
CODEN: JMCMAR; **ISSN**: 0022-2623
PB American Chemical Society
DT Journal
LA English
OS CASREACT 141:296236
AB The authors describe the synthesis of new high affinity and selective A3-adenosine receptor (A3-AdoR) agonists. Introduction of a Me group at the N6-position of the A2A-AdoR selective 2-pyrazolyl-adenosine analogs (Figure 2) brought about a substantial increase in the A3-AdoR binding affinity and selectivity. While the N6-desmethyl analogs were inactive at the A3-AdoR ($K_i > 10 \mu\text{M}$), the corresponding N6-Me analogs showed good binding affinity at the A3-AdoR ($K_i = 73$ and 97 nM , resp.). Replacement of the carboxamide group with different heteroaryl groups resulted in analogs with high affinities and selectivity for the A3-AdoR.
(2R,3S,4R)-Tetrahydro-2-(hydroxymethyl)-5-[6-(methylamino)-2-(4-(pyridin-2-yl)-1H-pyrazol-1-yl)-9H-purin-9-yl]furan-3,4-diol ($K_i = 2 \text{ nM}$) displayed high selectivity for the A3-AdoR vs. A1- and A2A-AdoRs (selectivity ratios of 1900 and >2000, resp.).

RE.CNT 23 THERE ARE 23 CITED REFERENCES AVAILABLE FOR THIS RECORD
ALL CITATIONS AVAILABLE IN THE RE FORMAT

L3 ANSWER 4 OF 5 CAPLUS COPYRIGHT 2008 ACS on STN
AN 2004:566634 CAPLUS
DN 141:123865
TI Substitution derivatives of N6-benzyl-adenosine, methods of their preparation, their use for preparation of drugs, cosmetic preparations and growth regulators, pharmaceutical preparations, cosmetic preparations and growth regulators containing these compounds
IN Dolezal, Karel; Popa, Igor; Zatloukal, Marek; Lenobel, Rene; Hradecka, Dana; Vojtesek, Borivoj; Uldrijan, Stjepan; Mlejnek, Petr; Werbrouck,

Stefaan; Strnad, Miroslav
 PA Ustav Experimentalni Botaniky Akademie Ved Ceske Republiky, Czech Rep.; et
 al.
 SO PCT Int. Appl., 114 pp.
 CODEN: PIXKD2
 DT Patent
 LA English
 FAN.CNT 1

| PATENT NO. | KIND | DATE | APPLICATION NO. | DATE |
|--|------|----------|-----------------|----------|
| PI WO 2004058791 | A2 | 20040715 | WO 2003-CZ78 | 20031229 |
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GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KR, KZ, LC, LK, LR,
LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, NZ, NO, NZ, OM, PH,
PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, TO, TM, TN, TR, TT, TZ,
UR, US, US, UZ, VN, YU, ZA, ZM, ZN | | | | |
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EG, FI, FR, GB, GR, HU, IE, IT, LU, MC, NL, PT, RO, SE, SI, SK,
TR, BY, BJ, CF, CG, CI, CM, GA, GN, QZ, GW, ML, MR, NE, SN, ID, TG | | | | |
| CZ 294336 | B6 | 20050112 | CZ 2002-4273 | 20021230 |
| AU 2003194608 | A1 | 20040722 | AU 2003-194608 | 20031229 |
| EP 1575973 | A2 | 20050921 | EP 2003-785462 | 20031229 |
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IE, SI, LT, LV, FI, RO, MN, CI, AL, IR, BG, CZ, EE, HU, SK | | | | |
| ZA 2005006074 | A | 20060531 | ZA 2005-6074 | 20050728 |
| US 2006166925 | A1 | 20060727 | US 2005-540993 | 20050815 |
| PRAI CZ 2002-4273 | A | 20021230 | | |
| WO 2003-CZ78 | W | 20031229 | | |
| OS MARPAT 141:123965 | | | | |
| GI | | | | |



AB The invention concerns novel substitution derivs. of N6-benzyl-adenosine I, wherein n is 2-6; R1 is H, OH, halogen, alkoxy, amino, hydrazo, mercapto, methylmercapto, carboxyl, cyano, nitro, amido, sulfo, sulfamido, acylamino, acyloxy, alkylamino, dialkylamino, alkylmercapto, carbalkoxy, cycloalkyl, carbamoyl alkyl; R2 is H, OH, halogen, alkoxy, amino, hydrazo, mercapto, methylmercapto, carboxyl, cyano, nitro, amido, sulfo, sulfamido, acylamino, acyloxy, alkylamino, dialkylamino, alkylmercapto, carbalkoxy, cycloalkyl, carbamoyl, having anticancer, mitotic, immunosuppressive and anti-senescent properties for plant, animal and human cells. This invention also relates to the methods of preparation of these N6-benzyl-adenosine derivs. and their use as drugs, cosmetic preps. and growth regulators comprising these derivs. as active compound and use of these derivs. for preparation of pharmaceutical compns., in biotechnol. processes, in cosmetics and in agriculture. Use of title compds. as mitotic or antimitotic compound, especially for treating cancer, psoriasis, rheumatoid arthritis, lupus, type I diabetes, multiple sclerosis, restenosis, polycystic kidney disease, graft rejection, graft vs. host disease and gout, parasitoses such as those caused by fungi or protists, or Alzheimer's disease, or as anti-neurodegenerative drugs, or to suppress

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immunostimulation or for the treatment of proliferative skin diseases. Thus, 2-amino-6-(2-methoxybenzylamino)purine riboside was prepared as growth regulator, and antitumor agent.

L3 ANSWER 5 OF 5 CAPLUS COPYRIGHT 2008 ACS on STN
AN 20041406956 CAPLUS
DN 141:235647
TI Modulation of adenosine receptor affinity and intrinsic efficacy in adenine nucleosides substituted at the 2-position
AU Ohno, Michinori; Gao, Zhan-Guo; Van Rompaey, Philippe; Tchilibon, Susanna; Kim, Soo-Kyung; Harris, Brian A.; Gross, Ariel S.; Duong, Heng T.; Van Calenbergh, Serge; Jacobson, Kenneth A.
CS National Institute of Diabetes and Digestive and Kidney Diseases, DHHS, Laboratory of Bioorganic Chemistry, Molecular Recognition Section, National Institutes of Health (NIH), Bethesda, MD 20892-0810, USA
SO Bioorganic & Medicinal Chemistry (2004), 12(11), 2995-3007
CODEN: BMCEPF; ISSN: 0968-0896
PB Elsevier Ltd.
DT Journal
LA English
OS CASREACT 141:235647
AB We studied the structural determinants of binding affinity and efficacy of adenosine receptor (AR) agonists. Substituents at the 2-position of adenosine were combined with N6-substitutions known to enhance human A3AR affinity. Selectivity of binding of the analogs and their functional effects on cAMP production were studied using recombinant human A1, A2A, A2B, and A3ARs. Mainly sterically small substituents at the 2-position modulated both the affinity and intrinsic efficacy at all subtypes. The 2-cyano group decreased hA3AR affinity and efficacy in the cases of N6-(3-iodobenzyl), and N6-(trans-2-phenyl-1-cyclopropyl), for which a full A3AR agonist was converted into a selective antagonist; the 2-cyano-N6-Me analog was a full A3AR agonist. The combination of N6-benzyl and various 2-substitutions (chloro, trifluoromethyl, and cyano) resulted in reduced efficacy at the A1AR. The environment surrounding the 2-position within the putative A3AR binding site was explored using rhodopsin-based homology modeling and ligand docking.
RE.CNT 38 THERE ARE 38 CITED REFERENCES AVAILABLE FOR THIS RECORD
ALL CITATIONS AVAILABLE IN THE RE FORMAT

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|--|------------------|---------------|
| COST IN U.S. DOLLARS | | |
| FULL ESTIMATED COST | 15.51 | 18.48 |
| DISCOUNT AMOUNTS (FOR QUALIFYING ACCOUNTS) | SINCE FILE ENTRY | TOTAL SESSION |
| CA SUBSCRIBER PRICE | -4.00 | -4.00 |

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DICTIONARY FILE UPDATES: 27 JUL 2008 HIGHEST RN 1036536-16-9

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<http://www.cas.org/support/stn/gen/stndoc/properties.html>

McIntosh

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=> s 11 full
FULL SEARCH INITIATED 08:58:38 FILE 'REGISTRY'
FULL SCREEN SEARCH COMPLETED - 8425 TO ITERATE

100.0% PROCESSED 8425 ITERATIONS 2343 ANSWERS
SEARCH TIME: 00:00:01

L4 2343 SEA SSS FUL 11

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FULL ESTIMATED COST ENTRY SESSION
DISCOUNT AMOUNTS (FOR QUALIFYING ACCOUNTS) SINCE FILE TOTAL
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FILE LAST UPDATED: 27 Jul 2008 (20080727/ED)

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<http://www.cas.org/legal/infopolicy.html>

=> s 14
L5 233 L4

=> d bib abs hitstr 200-233 15

L5 ANSWER 200 OF 233 CAPLUS COPYRIGHT 2008 ACS on STN
AN 1979:68647 CAPLUS
DN 90:68647
ORe 90:10827a,10830a
TI High performance liquid chromatographic analysis of cytokinins in Sorghum bicolor leaves
AU Kannangara, T.; Durley, R. C.; Simpson, G. M.
CS Crop Sci. Dep., Univ. Saskatchewan, Saskatoon, SK, Can.
SO Physiologia Plantarum (1978), 44(3), 295-9
CODEN: PHPLAI; ISSN: 0031-9317
DT Journal
LA English
AB High-performance liquid chromatog. with octadecylsilica (Bondapak C18/Porasil B) column packing was used to purify and sep. cytokinins in sorghum leaf exts. The column size was 56 + 0.21 cm. By gradient elution with acidified water containing increasing amts. of MeOH, the major peaks of cytokinin activity, as determined by the callus tissue bioassay, were effectively separated from large amts. of extraneous impurities. These cytokinins were separated further on a microoctadecylsilica column (μ Bondapak C18, 30 + 0.4 cm) with a gradient of acidified water-acetonitrile. Zeatin and zeatin riboside gave distinct UV absorption peaks, which could be used for quant. estimation Biol. activity

corresponded to the elution of these peak. These 2 cytokinins are the major cytokinins in sorghum leaves.

IT 50868-58-1

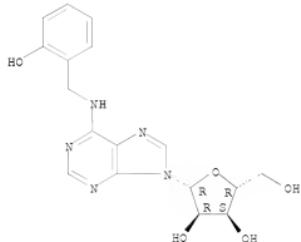
RL: ANT (Analyte); ANST (Analytical study)

(determination of, in leaves of sorghum by high-performance liquid chromatog.)

RN 50868-58-1 CAPLUS

CN Adenosine, N-[(2-hydroxyphenyl)methyl]- (CA INDEX NAME)

Absolute stereochemistry.



LS ANSWER 201 OF 233 CAPLUS COPYRIGHT 2008 ACS on STN
AN 1978:420376 CAPLUS

DN 89:120376

OREF 89:3187a,3190a

TI Influence of different cytokinins on the transpiration and senescence of excised oat leaves

AU Biddington, N. L.; Thomas, T. H.

CS Natl. Veg. Res. Stn., Wellesbourne/Warwick, UK

SO Physiologia Plantarum (1978), 42(4), 369-74

CODEN: PHPLA1; ISSN: 0031-9317

DT Journal

LA English

AB To investigate the possibility that cytokinins control transpiration indirectly through affecting leaf senescence, a direct comparison was made of the effect of different cytokinins on transpiration and senescence of 4at leaves. Senescence was assessed by measuring chlorophyll loss. The synthetic cytokinins N6-benzyladenine (I) and kinetin delayed senescence and increased transpiration of oat leaves to a greater extent than did the naturally occurring compds. zeatin, N6-Az-isopentenyladenine (I6Ade) and 6-o-hydroxybenzyladenosine (II). During the early stages of the transpiration experiment zeatin showed similar or greater activity than I. This period was longest when freshly excised leaves were used, was reduced when leaves were used after incubation in distilled water in the dark for 20 h and was eliminated by incubation in cytokinin solution in the dark. After this period the activity of zeatin declined relative to I. The effect of cytokinins in increasing transpiration occurred only in the light; no effect was observed in the dark. I showed higher activity than zeatin in senescence tests but both cytokinins were less effective as the tests progressed, this decrease in activity being more rapid when older leaves were used. The results are discussed in relation to the mechanisms by which endogenous cytokinins might control senescence and transpiration in oat leaves and to the value of the oat leaf senescence and transpiration bioassays as tests for cytokinin activity of plant exts.

IT 50868-58-1

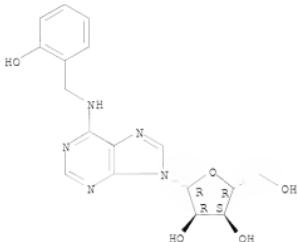
RL: BIOL (Biological study)

(senescence and transpiration in excised oat leaves response to)

RN 50868-58-1 CAPLUS

CN Adenosine, N-[(2-hydroxyphenyl)methyl]- (CA INDEX NAME)

Absolute stereochemistry.



LS ANSWER 202 OF 233 CAPLUS COPYRIGHT 2008 ACS on STN
AN 1978:51117 CAPLUS

DN 88:51117

OREF 88:8081a,8084a

II Synthesis of N6- or 8-substituted 9-(β -D-arabinofuranosyl)adenines and their antiviral activities against herpes simplex and vaccinia viruses
AU Kaneko, Masakatsu; Kimura, Misako; Nishimura, Takuzo; Shimizu, Bunji
CS Cent. Res. Lab., Sankyo Co., Ltd., Tokyo, Japan
SO Chemical & Pharmaceutical Bulletin (1977), 25(10), 2482-9

CODEN: CPBTAL; ISSN: 0009-2383

DT Journal

LA English

AB 9-(β -D-Arabinofuranosyl)adenine (Ara-A) was prepared from AMP in 30% yield via 8,2'-O-cycloadenosine. 8-Substituted-amino Ara-A derivs. were obtained by aminolysis of 8,2'-O-cycloadenosine; N6-substituted Ara-A derivs. were obtained by treating 6-chloro-9-(β -D-arabinofuranosyl)purine with amines. In vitro antiviral activities of the N6- or 8-substituted Ara-A were determined by the degree of cytopathic effect inhibition.

IT 65397-90-2P 65397-91-3P 65397-92-4P

65397-93-5P 65397-94-6P 65397-95-7P

65397-96-3P 65397-97-9P

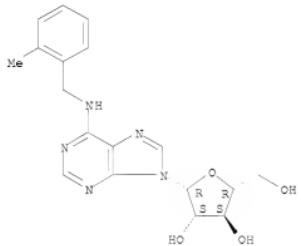
RL: BAA (Biological activity or effector, except adverse); BSU (Biological study, unclassified); SPN (Synthetic preparation); BIOL (Biological study); PREP (Preparation)

(preparation and virucidal activity of)

RN 65397-90-2 CAPLUS

CN 9H-Purin-6-amine, 9- β -D-arabinofuranosyl-N-[(2-methylphenyl)methyl] -
(CA INDEX NAME)

Absolute stereochemistry.



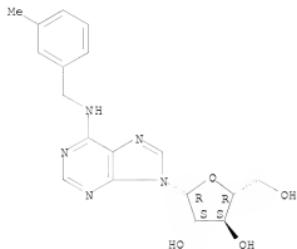
RN 65397-91-3 CAPLUS

CN 9H-Purin-6-amine, 9- β -D-arabinofuranosyl-N-[(3-methylphenyl)methyl] -

10/540,993

(CA INDEX NAME)

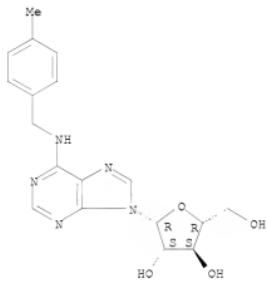
Absolute stereocchemistry.



RN 65397-92-4 CAPLUS

CN 9H-Purin-6-amine, 9- β -D-arabinofuranosyl-N-[(4-methylphenyl)methyl]-
(CA INDEX NAME)

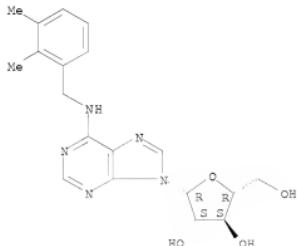
Absolute stereocchemistry.



RN 65397-93-3 CAPLUS

CN 9H-Purin-6-amine, 9- β -D-arabinofuranosyl-N-[(2,3-dimethylphenyl)methyl]-
(CA INDEX NAME)

Absolute stereocchemistry.

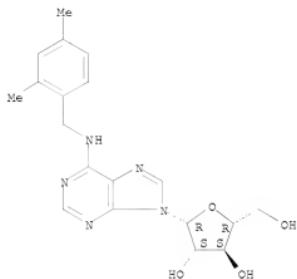


McIntosh

10/540,993

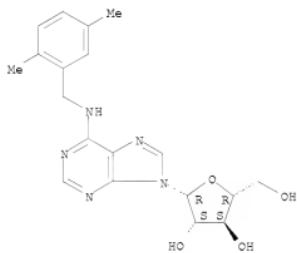
RN 65397-94-6 CAPLUS
CN 9H-Purin-6-amine, 9- β -D-arabinofuranosyl-N-[(2,4-dimethylphenyl)methyl]- (CA INDEX NAME)

Absolute stereocchemistry.



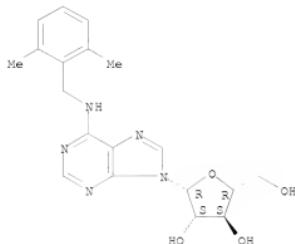
RN 65397-95-7 CAPLUS
CN 9H-Purin-6-amine, 9- β -D-arabinofuranosyl-N-[(2,6-dimethylphenyl)methyl]- (CA INDEX NAME)

Absolute stereocchemistry.



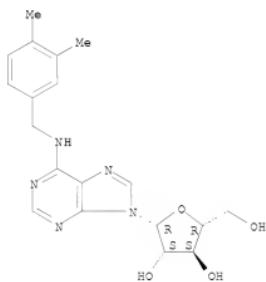
RN 65397-96-8 CAPLUS
CN 9H-Purin-6-amine, 9- β -D-arabinofuranosyl-N-[(2,6-dimethylphenyl)methyl]- (CA INDEX NAME)

Absolute stereocchemistry.

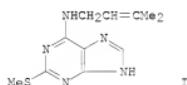


RN 65397-97-9 CAPLUS
 CN 9H-Purin-6-amine, 9- β -D-arabinofuranosyl-N-[(3,4-dimethylphenyl)methyl]- (CA INDEX NAME)

Absolute stereochemistry.



LS ANSWER 203 OF 233 CAPLUS COPYRIGHT 2008 ACS on STN
 AN 1978:17157 CAPLUS
 DN 88:17157
 OREF 88:2715a,2718a
 TI Antisenescent activity of natural cytokinins
 AU Kuhnlle, Judith A.; Fuller, Glenn; Corse, Joseph; Mackey, Bruce E.
 CS WWRCC, ARS, Berkeley, CA, USA
 SO Physiologia Plantarum (1977), 41(1), 14-21
 CODEN: PHPPLA; ISSN: 0031-9317
 DT Journal
 LA English
 GI



AB The antisenescent activity of naturally occurring cytokinins (bases and ribosides) were evaluated by measuring chlorophyll retention in detached wheat (*Triticum vulgare*) leaf segments. 6-(3-Methyl-2-butenylamino)-2-

methylthiopurine (I) [20758-33-2] was the most active cytokinin followed by 6-(3-methyl-trans-2-but enylamino)purine (II) [1637-39-4]. Other D-ribofuranosylpurines tested were essentially inactive. 9-Ribosyl substitution did not affect the activity of II, (±)-6-(4-hydroxy-3-methylbutenylamino)purine (III) [14894-18-9], or 6-(3-methyl-2-but enylamino)purine (IV) [2365-40-4], but lowered the activity of 6-(*o*-hydroxybenzylamino)purine [20366-83-0] and 6-(4-hydroxy-3-methyl-cis-2-but enylamino)purine [32771-64-5]. 2-Methylthio substitution increased the activity of III and IV and decreased or had no effect on the activity of other derivs. The activities of the simultaneously substituted 2-methylthio-9-ribosyl compds. are lower than those of their corresponding unsubstituted or 2-methylthio substituted bases with the exception of III. Structure-activity relations for chlorophyll retention did not parallel many of the relation found for callus tissue growth stimulation.

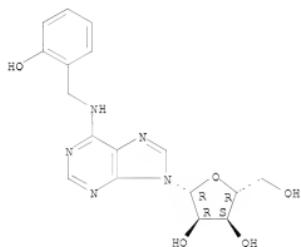
IT 50868-58-1

RL: BAC (Biological activity or effector, except adverse); BSU (Biological study, unclassified); BIOL (Biological study)
(antiserescent activity of)

RN 50868-58-1 CAPLUS

CN Adenosine, N-[(2-hydroxyphenyl)methyl]- (CA INDEX NAME)

Absolute stereochemistry.



L5 ANSWER 204 OF 233 CAPLUS COPYRIGHT 2008 ACS on STN

AN 1977:536321 CAPLUS

DN 87:136321

OREF 87:21613a,21616a

TI Purine nucleotides

IN Imahori, Kazutomo; Suzuki, Keiichi; Eguchi, Chikahiko

PA Ajinomoto Co., Inc., Japan

SO Jpn. Kokai Tokkyo Koho, 8 pp.

CODEN: JKXXAF

DT Patent

LA Japanese

FAN.CNT 1

| PATENT NO. | KIND | DATE | APPLICATION NO. | DATE |
|-------------|------|----------|-----------------|----------|
| ----- | ---- | ----- | ----- | ----- |
| JP 52025795 | A | 19770225 | JP 1975-102293 | 19750823 |
| JP 60047280 | B | 19851021 | | |

PRAI JP 1975-102293 A 19750823

AB Aminophenylpurine nucleotides, ligands for carriers for affinity chromatog., were prepared by reducing the corresponding nitrophenylpurine nucleotides. Thus, 500mg Na N6-(p-nitrobenzyl)-5'-adenylate in MeOH-H₂O was hydrogenated at atmospheric pressure using 5% Pd-C to give 357mg Na N6-(p-aminobenzyl)-5'-adenylate. Similarly prepared was Na salt of p-aminophenyl adenosine-5'-phosphate.

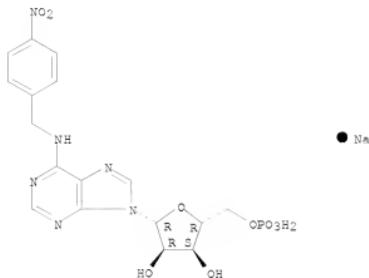
IT 63459-71-2

RL: RCT (Reactant); RACT (Reactant or reagent)
(hydrogenation of)

RN 63459-71-2 CAPLUS

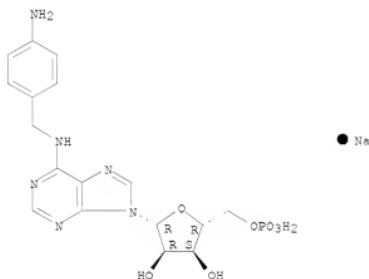
CN 5'-Adenylic acid, N-[(4-nitrophenyl)methyl]-, monosodium salt (9CI) (CA INDEX NAME)

Absolute stereochemistry.



IT 63425-98-9P
 RL: SPN (Synthetic preparation); PREP (Preparation)
 (preparation of)
 RN 63425-98-9 CAPLUS
 CN 5'-Adenylic acid, N-[(4-aminophenyl)methyl], monosodium salt (9CI) (CA
 INDEX NAME)

Absolute stereochemistry.



L5 ANSWER 203 OF 233 CAPLUS COPYRIGHT 2008 ACS on STN
 AN 19771449435 CAPLUS
 DN 87:49435
 OREF 87:7823a,7826a
 II Synthesis of AMP analogs and their use for studies on the allosteric site
 of rabbit muscle glycogen phosphorylase b
 AU Eguchi, Chikahiko; Suzuki, Koichi; Imahori, Kazutomo
 CS Fac. Med., Univ. Tokyo, Tokyo, Japan
 SO Journal of Biochemistry (Tokyo, Japan) (1977), 81(5), 1401-11
 CODEN: JOBIAO; ISSN: 0021-924X
 DT Journal
 LA English
 AB In order to obtain a better understanding of the allosteric site of rabbit
 muscle phosphorylase b (I), 9 AMP analogs having a bulky hydrophobic
 benzene ring were synthesized and tested for activity as effectors.
 N6-Benzyl-AMP derivs. activated I to the same extent as AMP but were bound
 to I more tightly than AMP. N6-p-nitrobenzyl-AMP had the highest affinity
 for the AMP site. In an attempt to irreversibly modify the allosteric
 site of I, N6-p-bromoacetaminobenzyl-AMP (II) was synthesized. I was

maximally activated upon incorporation of 1.0 mol of II/I subunit, and its activity was apprx. 90% of that of native I measured in the presence of AMP. The modified I showed characteristics (e.g., kinetic parameters, stability, solubility, inhibition by glucose 6-phosphate, and state of aggregation) quite similar to those observed for native I in the presence of AMP. These results indicate that the AMP site of I was specifically labeled by II. The nature of the allosteric site of I is discussed based on the results obtained.

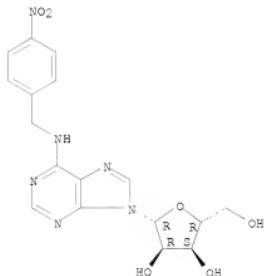
IT 40297-54-3P

RL: SPN (Synthetic preparation); PREP (Preparation)
(preparation of)

RN 40297-54-9 CAPLUS

CN Adenosine, N-[(4-nitrophenyl)methyl]- (9CI) (CA INDEX NAME)

Absolute stereocchemistry.



IT 63074-11-3P 63554-91-6P 63554-92-7P

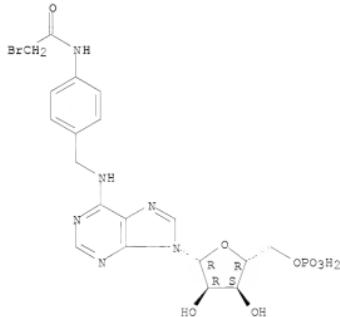
63591-33-3P

RL: SPN (Synthetic preparation); PREP (Preparation)
(preparation of and phosphorylase b response to)

RN 63074-11-3 CAPLUS

CN 5'-Adenylic acid, N-[(4-((bromacetyl)amino)phenyl)methyl]- (9CI) (CA INDEX NAME)

Absolute stereocchemistry.

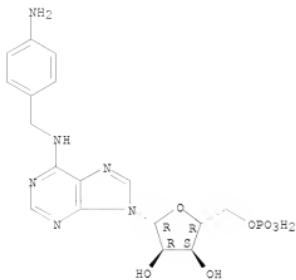


RN 63554-91-6 CAPLUS

CN 5'-Adenylic acid, N-[(4-aminophenyl)methyl]- (9CI) (CA INDEX NAME)

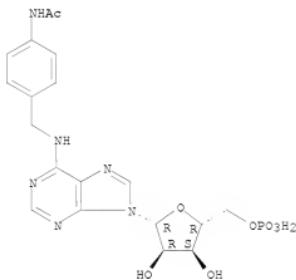
10/540,993

Absolute stereochemistry.



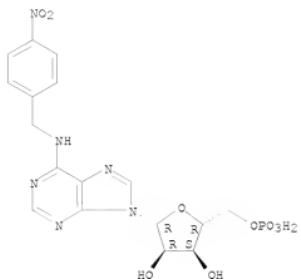
RN 63554-92-7 CAPLUS
CN 5'-Adenylic acid, N-[(4-(acetylamino)phenyl)methyl]- (9CI) (CA INDEX NAME)

Absolute stereochemistry.



RN 63591-33-3 CAPLUS
CN 5'-Adenylic acid, N-[(4-nitrophenyl)methyl]- (9CI) (CA INDEX NAME)

Absolute stereochemistry.



LS ANSWER 206 OF 233 CAPLUS COPYRIGHT 2008 ACS on STN
 AN 19771449434 CAPLUS
 DN 87:49434

OREF 87:7823a, 7826a

TI Affinity labeling of adenine nucleotide-related enzymes with reactive adenine nucleotide analogs. II. Affinity labeling of phosphoglycerate kinase with a reactive AMP analog
 AU Suzuki, Koichi; Eguchi, Chikahiko; Imahori, Kazutomo
 CS Fac. Med., Univ. Tokyo, Tokyo, Japan
 SO Journal of Biochemistry (Tokyo, Japan) (1977), 81(5), 1393-9
 CODEN: JOSIAO; ISSN: 0021-924X

DT Journal

LA English

AB Affinity labeling of yeast and *Bacillus stearothermophilus* phosphoglycerate kinase (I) with a reactive AMP analog, N⁶-(p-bromoacetamobenzyl)-AMP (II), was examined. Complete loss of I activity was observed when 1 mol of II had reacted per mol of either I. Results on the effect of pH and substrate addition on the inactivation, titration of SH groups before and after modification, and kinetic studies with AMP analogs suggest that the modification occurs at 1 NH₂ group at or near the substrate binding site. General affinity labeling of kinases is discussed.

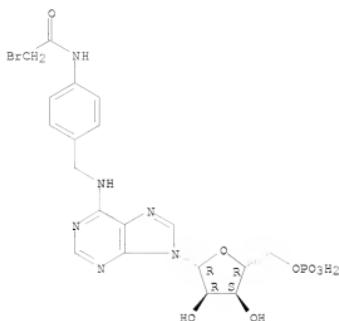
IT 63074-11-3

RL: BIOL (Biological study)
 (phosphoglycerate kinase affinity labeling with)

RN 63074-11-3 CAPLUS

CN 5'-Adenylic acid, N-[[4-[(bromacetyl)amino]phenyl]methyl]- (9CI) (CA INDEX NAME)

Absolute stereochemistry.



L5 ANSWER 207 OF 233 CAPLUS COPYRIGHT 2008 ACS on STN
 AN 1977:401722 CAPLUS
 DN 87:1722

OREF 87:307a,310a

TI Affinity labeling of adenine nucleotide-related enzymes with reactive adenine nucleotide analogs. I. Affinity labeling of glyceraldehyde 3-phosphate dehydrogenase and myokinase with a reactive AMP analog

AU Suruki, Koichi; Eguchi, Chikahiko; Imahori, Kazutomo

CS Fac. Med., Univ. Tokyo, Tokyo, Japan

SO Journal of Biochemistry (Tokyo, Japan) (1977), 81(4), 1147-54

CODEN: JOBIAO; ISSN: 0021-924X

DT Journal

LA English

AB Rabbit muscle glyceraldehyde 3-phosphate dehydrogenase (GPD) and myokinase (MK) were rapidly inactivated by N6-(*p*-bromoacetamidobenzyl)-AMP under mild conditions. Complete inactivation was observed when 4 and 0.3 mol of the reagent with respect to enzyme were reacted with GPD and MK, resp. The inactivation of both enzymes was favored at higher pH and the enzymes were protected by addition of adenine nucleotide substrate. Modified GPD or MK had no affinity for AMP-Sepharose, in contrast to the native enzymes. Thus, the inactivation of GPD and MK by the reactive AMP analog can be regarded as an affinity labeling.

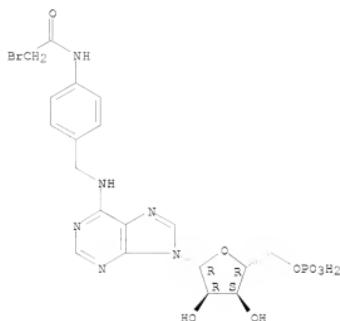
IT 63074-11-3

RL: BIOL (Biological study)
 (glyceraldehyde phosphate dehydrogenase and myokinase affinity labeling by)

RN 63074-11-3 CAPLUS

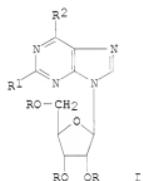
CN 5'-Adenylic acid, N-[[4-[(bromoacetyl)amino]phenyl]methyl]- (9CI) (CA INDEX NAME)

Absolute stereochemistry.



LS ANSWER 208 OF 233 CAPLUS COPYRIGHT 2008 ACS on STN
 AN 1977121709 CAPLUS
 DN 86121709
 OREF 8619231a,19234a
 TI Adenosine derivatives
 IN Kampe, Wolfgang; Thiel, Max; Stach, Kurt; Schaumann, Wolfgang; Dietmann, Karl
 PA Boehringer Mannheim G.m.b.H., Fed. Rep. Ger.
 SO Ger. Offen., 13 pp. Addn. to and Division of Ger. Offen. 1,670,175.
 CODEN: GMXXBX
 DT Patent
 LA German
 FAN.CNT 1
 PATENT NO. KIND DATE APPLICATION NO. DATE

 PI DE 2524284 A1 19761028 DE 1975-2524284 19750417
 PRAI DE 1975-2524284 A 19750417
 GI

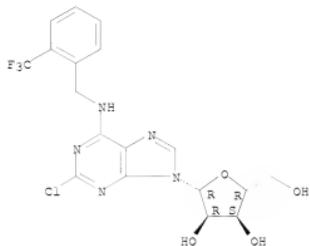


AB Vasodilating adenosines I (R = H; R1 = Cl, OH; R2 = 2-F3CC6H4CH2NH; R = H, R1 = OH, R2 = 2-Me-5-ClC6H3CH2NH) were prepared in 29-39% yields. Thus, I (R = Ac, R1 = R2 = Cl), 2-F3CC6H4CH2NH, and Et3N in Me2COH were refluxed 2 h to give 39% I (R = H, R1 = Cl, R2 = 2-F3CC6H4CH2NH) (II), which gave 6% decrease in the exhaustion of O in arterial blood.
 IT 62190-54-9P 62190-55-0P 62223-39-6P
 RL: SPN (Synthetic preparation); PREP (Preparation)
 (preparation and vasodilating activity)
 RN 62190-54-9 CAPLUS
 CN Adenosine, 2-chloro-N-[(2-(trifluoromethyl)phenyl)methyl]- (9CI) (CA)

10/540, 993

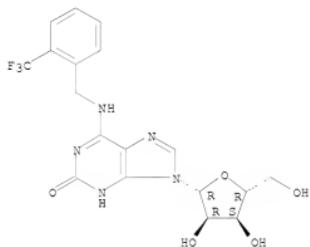
INDEX NAME)

Absolute stereocchemistry.



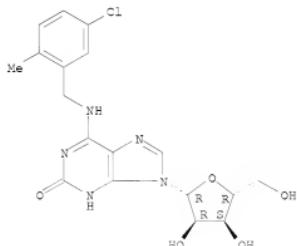
RN 62190-55-0 CAPLUS
CN Adenosine, 1,2-dihydro-2-oxo-N-[(2-(trifluoromethyl)phenyl)methyl]- (9CI)
(CA INDEX NAME)

Absolute stereocchemistry.



RN 62223-39-6 CAPLUS
CN Adenosine, N-[(5-chloro-2-methylphenyl)methyl]-1,2-dihydro-2-oxo- (9CI)
(CA INDEX NAME)

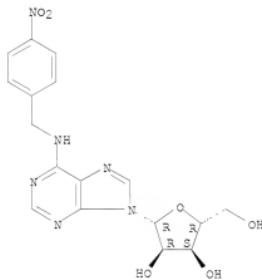
Absolute stereocchemistry.



McIntosh

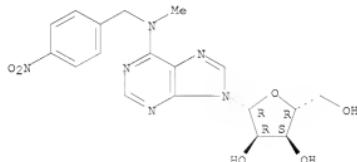
L5 ANSWER 209 OF 233 CAPLUS COPYRIGHT 2008 ACS on STN
 AN 19751572423 CAPLUS
 DN 83:172423
 OREF 83:127001a,27004a
 TI Inhibitors of nucleoside transport. Structure-activity study using human erythrocytes
 AU Paul, Brajewar; Chen, Marianne F.; Paterson, Alan R. P.
 CS McEachern Lab., Univ. Alberta, Edmonton, AB, Can.
 SO Journal of Medicinal Chemistry (1975), 18(10), 968-73
 CODEN: JMCMAR; ISSN: 0022-2623
 DT Journal
 LA English
 GI For diagram(s), see printed CA Issue.
 AB Of 68 nucleoside derivs. studied, the 9- β -D-ribofuranosylpurine [550-33-4] derivs. with S, O, or N atoms at the 6 position bearing alkyl or aralkyl groups most strongly inhibited transport of hypoxanthine [66-94-0] and guanosine [118-00-3] across the erythrocyte plasma membrane. 6-[(2-Hydroxy-3-nitrobenyl)thio]-9- β -D-ribofuranosylpurine (I) [56964-73-9], and 2-amino-6-[(2-hydroxy-3-nitrobenyl)thio]-9- β -D-ribofuranosylpurine (II) [41094-07-9] were very potent inhibitors, giving 50% inhibition of extracellular hypoxanthine and guanosine conversion to inosine in erythrocytes at concns. of 6.9×10^{-5} and 5.8×10^{-6} M, resp. The relation of structure and substituent hydrophobicity to activity is discussed.
 IT 40297-54-9P 56964-69-3P
 RL: SPN (Synthetic preparation); PREP (Preparation)
 (preparation and nucleoside transport inhibition by)
 RN 40297-54-9 CAPLUS
 CN Adenosine, N-[4-nitrophenyl)methyl]- (9CI) (CA INDEX NAME)

Absolute stereocchemistry.



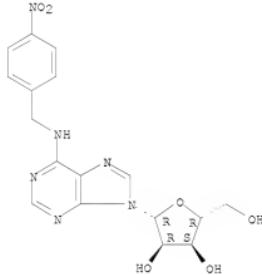
RN 56964-69-3 CAPLUS
 CN Adenosine, N-methyl-N-[(4-nitrophenyl)methyl]- (9CI) (CA INDEX NAME)

Absolute stereocchemistry.



L5 ANSWER 210 OF 233 CAPLUS COPYRIGHT 2008 ACS on STN
 AN 19751557754 CAPLUS
 DN 83:157754
 OREF 83:24691a,24694a
 TI Synthesis and biological activities of some N6-(nitro- and -aminobenzyl)adenosines
 AU Dutta, Shub P.; Tritsch, George L.; Cox, Clifford; Chheda, Girish B.
 CS Gen. Clin. Res. Cent., Roswell Park Mem. Inst., Buffalo, NY, USA
 SO Journal of Medicinal Chemistry (1975), 18(8), 780-3
 CODEN: JMCMAR; ISSN: 0022-2623
 DT Journal
 LA English
 GI For diagram(s), see printed CA Issue.
AB Of 12 title compds., prepared by direct alkylation of adenosine [58-61-7] by a benzyl bromide derivative to give the N1-derivative followed by rearrangement in base, or nucleophilic displacement of Cl in 6-chloropurine nucleosides with an amine, several were inhibitors of adenosine aminohydrolase [9026-93-1] and equal to or more active than N6-benzyladenosine [4294-16-0] as growth inhibitors of leukemia L1210 cells. The highest affinity for the substrate binding site of the enzyme was shown by N6-p-nitrobenzyladenosine (I) [40297-54-9], N6-p-nitrobenzyl-2'-deoxyadenosine (II) [56527-33-4], which were also relatively nontoxic; 2-amino-6-p-nitrobenzylamino-9-(β -D-ribofuranosyl)purine (III) [56527-38-9] and 2-amino-6-p-nitrobenzylaminopurine (IV) [56527-39-0] were better inhibitors of L1210 cells than N6-benzyladenosine.
IT 40297-54-9P 40896-40-0P 40896-43-3P
 40958-96-1P 56527-34-3P 56527-35-6P
 56527-36-7P 56527-38-9P
 RL: BAA (Biological activity or effector, except adverse); BSU (Biological study, unclassified); SPN (Synthetic preparation); BIOL (Biological study); PREP (Preparation)
 (preparation and biol. activity of)
RN 40297-54-9 CAPLUS
CN Adenosine, N-[(4-nitrophenyl)methyl]- (9CI) (CA INDEX NAME)

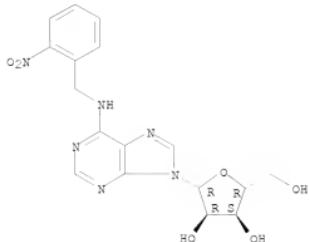
Absolute stereochemistry.



RN 40896-40-0 CAPLUS
CN Adenosine, N-[(2-nitrophenyl)methyl]- (CA INDEX NAME)

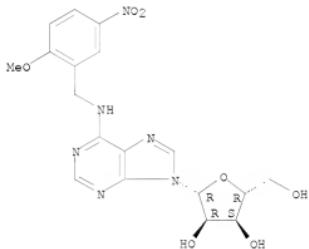
Absolute stereochemistry.

10/540,993



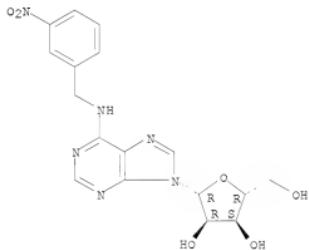
RN 40896-43-3 CAPLUS
CN Adenosine, N-[(2-methoxy-5-nitrophenyl)methyl]- (9CI) (CA INDEX NAME)

Absolute stereochemistry.



RN 40958-96-1 CAPLUS
CN Adenosine, N-[(3-nitrophenyl)methyl]- (9CI) (CA INDEX NAME)

Absolute stereochemistry.

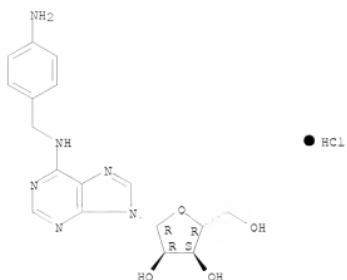


RN 56527-34-5 CAPLUS
CN Adenosine, N-[(4-aminophenyl)methyl]-, monohydrochloride (9CI) (CA INDEX NAME)

Absolute stereochemistry.

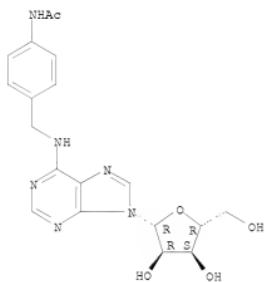
McIntosh

10/540, 993



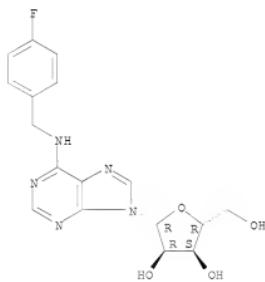
RN 56527-35-6 CAPLUS
CN Adenosine, N-[(4-(acetylamino)phenyl)methyl]- (9CI) (CA INDEX NAME)

Absolute stereocchemistry.



RN 56527-36-7 CAPLUS
CN Adenosine, N-[(4-fluorophenyl)methyl]- (CA INDEX NAME)

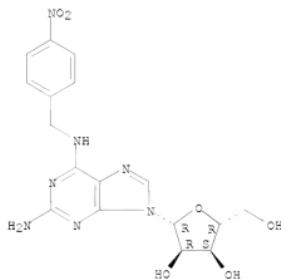
Absolute stereocchemistry.



10/540,993

RN 56527-38-9 CAPLUS
CN Adenosine, 2-amino-N-[(4-nitrophenyl)methyl]- (9CI) (CA INDEX NAME)

Absolute stereochemistry.



LS ANSWER 211 OF 233 CAPLUS COPYRIGHT 2008 ACS on STN

AN 1975:S10724 CAPLUS

DN 83:110724

REF 83:17381a,17384a

TI Quantitative analysis of cytokinin using single-ion current monitoring

AU Thompson, A. G.; Horgen, R.; Heald, J. K.

CS Dep. Bot. Microbiol., Univ. Coll. Wales, Aberystwyth, UK

SO Planta (1975), 124(2), 207-10

CODEN: PLANAB; ISSN: 0032-0935

DT Journal

LA English

AB The levels of the cytokinin 6-(o-hydroxybenzylamino)-9- β -D-ribofuranosylpurine (o-OH BAP riboside) were measured in attached leaves of poplar (*Populus robusta*) using the technique of single-ion current monitoring (SICM) after extraction of the cytokinin. The use of 6-(p-hydroxybenzylamino)-9- β -D-ribofuranosylpurine (p-OH BAP riboside) as an internal standard enabled quant. measurements of recovery to be made.

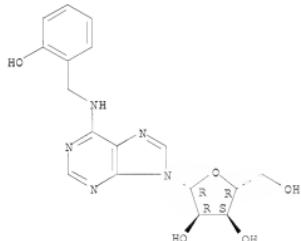
IT 50868-58-1

RL: ANT (Analyte); ANST (Analytical study)
(determination of, in poplar leaves, mass spectrometrics)

RN 50868-58-1 CAPLUS

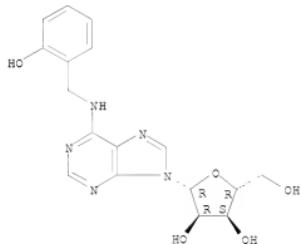
CN Adenosine, N-[(2-hydroxyphenyl)methyl]- (CA INDEX NAME)

Absolute stereochemistry.



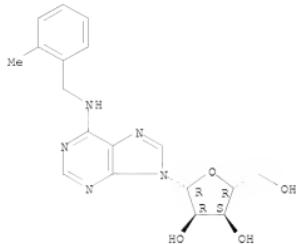
L5 ANSWER 212 OF 233 CAPLUS COPYRIGHT 2008 ACS on STN
 AN 19751455693 CAPLUS
 DN 83:55693
 OREF 83:8779a,8782a
 TI New cytokinin from *Populus x robusta*
 AU Horgan, R.; Hewett, E. W.; Horgan, J. M.; Purse, J.; Wareing, P. F.
 CS Dep. Bot. Microbiol., Univ. Coll. Wales, Aberystwyth, UK
 SO Phytochemistry (Elsevier) (1975), 14(4), 1005-8
 CODEN: PYTCAS; ISSN: 0031-9422
 DT Journal
 LA English
 AB A new cytokinin was isolated from mature leaves of poplar. Its structure was determined by uv and mass spectra and confirmed by synthesis as 6-(α -hydroxybenzylamino)-9- β -D-ribofuranosylpurine. This cytokinin has medium activity in the soybean callus test but shows high activity in the radish leaf senescence test.
 IT 50868-58-1
 RL BOC (Biological occurrence); BSU (Biological study, unclassified); BIOL (Biological study); CCCU (Occurrence)
 (of *Populus robusta*)
 RN 50868-58-1 CAPLUS
 CN Adenosine, N-[(2-hydroxyphenyl)methyl]- (CA INDEX NAME)

Absolute stereochemistry.



L5 ANSWER 213 OF 233 CAPLUS COPYRIGHT 2008 ACS on STN
 AN 19751400817 CAPLUS
 DN 83:817
 OREF 83:163a,168a
 TI Effects of adenosine on metabolic and electrocardiographic parameters during a trial pacing in patients with coronary heart disease
 AU Kugler, G.; Westermann, K. W.
 CS II. Med. Klin. Poliklin., Univ. Hamburg-Eppendorf, Hamburg, Fed. Rep. Ger.
 SO Zeitschrift fuer Kardiologie (1974), 63(11), 987-1000
 CODEN: ZKRDAX; ISSN: 0300-5860
 DT Journal
 LA German
 GI For diagram(s), see printed CA Issue.
 AB The adenosine derivative, metrifidul (I) [23707-33-7], a specific coronary dilator, given i.v. to patients with coronary heart disease at 40 μ g/kg increased coronary-venous O₂ saturation following an increase in coronary blood flow but had a neg. effect during atrial pacing on electrocardiogr.-registered hypoxic reaction and on the increase of lactate production. Therapy of coronary heart disease with coronary dilators is questionable.
 IT 23707-33-7
 RL BIOL (Biological study)
 (heart disease treatment with)
 RN 23707-33-7 CAPLUS
 CN Adenosine, N-[(2-methylphenyl)methyl]- (CA INDEX NAME)

Absolute stereochemistry.

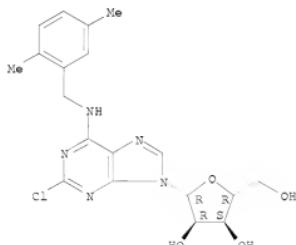


LS ANSWER 214 OF 233 CAPLUS COPYRIGHT 2008 ACS on STN
 AN 1975:140450 CAPLUS
 DN 82:140450
 OREF 82:22459a,22462a
 TI 2-Chloroadenosines
 IN Kikugawa, Kiyomi; Suehiro, Hideo; Ichino, Motonobu; Nakamura, Tokuko
 PA Kohjin Co., Ltd.
 SO Jpn. Kokai Tokkyo Koho, 3 pp.
 CODEN: JKMXAF

DT Patent
 LA Japanese
 FAN.CNT 1

| | PATENT NO. | KIND | DATE | APPLICATION NO. | DATE |
|------|---|------|----------|-----------------|----------|
| PI | JP 49110691 | A | 19741022 | JP 1973-27982 | 19730312 |
| | JP 55049595 | B | 19801212 | | |
| PRAI | JP 1973-27982 | A | 19730312 | | |
| GI | For diagram(s), see printed CA Issue. | | | | |
| AB | 2-Chloroadenosines I ($\text{Q} = \beta\text{-D-ribofuranosyl}$; $\text{R}1 = \text{R}2 = \text{H}$, alkyl, $\text{R}1 = \text{H}$, $\text{R}2 = \text{phenyl}$, benzyl, phenethyl with or without substituents) are prepared by treating 2-chloro-6-alkoxy-9- $\beta\text{-D-ribofuranosylpurines II}$ ($\text{R} = \text{Me}$, Et, Pr) with NH_3 or appropriate amines. Thus, 1 g II ($\text{R} = \text{Me}$) was heated with 100 ml saturated NH_3 in MeOH at 10°C for 4 hr in a sealed tube to give 100% I ($\text{R}1 = \text{R}2 = \text{H}$). Also prepared were I ($\text{R}1 = \text{H}$; $\text{R}2 = \text{PhCH}_2$, iso-Bu , $\text{PhCH}_2\text{CH}_2\text{Ph}$, 2,5-dimethylbenzyl). | | | | |
| IT | 38583-88-9P
RL: SPN (Synthetic preparation); PREP (Preparation)
(preparation of) | | | | |
| RN | 38583-88-9 CAPLUS | | | | |
| CN | Adenosine, 2-chloro-N-[(2,5-dimethylphenyl)methyl]- (9CI) (CA INDEX NAME) | | | | |

Absolute stereochemistry.

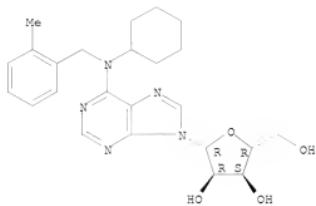


L5 ANSWER 215 OF 233 CAPLUS COPYRIGHT 2008 ACS on STN
 AN 19741:46487 CAPLUS
 DN 80:146487
 OREF 80:23653a,23656a
 TI N-Benzyladenosines
 IN Kampe, Wolfgang; Fauland, Erich; Stach, Kurt; Stork, Harald; Schmidt,
 Helmut
 PA Boehringer Mannheim G.m.b.H.
 SO Ger. Offen., 18 pp.

CODEN: GWXXBX
 DT Patent
 LA German

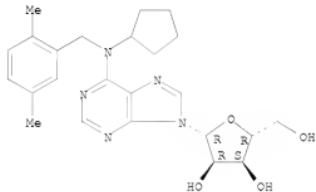
FAN.CNT 1

| | PATENT NO. | KIND | DATE | APPLICATION NO. | DATE |
|---------------------------|--|-------------|-------------|-----------------|----------|
| PI | DE 2244328 | A1 | 19740321 | DE 1972-2244328 | 19720909 |
| | GB 1385830 | A | 19750305 | GB 1973-41318 | 19730903 |
| | ZA 7306044 | A | 19740925 | ZA 1973-6044 | 19730904 |
| | DK 130833 | B | 19750421 | DK 1973-6859 | 19730904 |
| | US 3688029 | A | 19750429 | US 1973-393859 | 19730904 |
| | DD 108086 | A5 | 19740912 | DD 1973-173293 | 19730905 |
| | CH 579586 | A5 | 19760915 | CH 1973-12767 | 19730905 |
| | CH 579588 | A5 | 19760915 | CH 1976-13253 | 19730905 |
| | NL 7312260 | A | 19740312 | NL 1973-12260 | 19730906 |
| | CA 18172 | B2 | 19780331 | CA 1973-6219 | 19730906 |
| | CS 181750 | B2 | 19780331 | CS 1976-6758 | 19730906 |
| | FR 2198749 | A1 | 19740405 | FR 1973-32281 | 19730907 |
| | AU 7360132 | A | 19740502 | AU 1973-60132 | 19730907 |
| | AT 7307784 | A | 19750715 | AT 1973-7784 | 19730907 |
| | AT 32912 | B | 19760426 | | |
| | ES 418572 | A1 | 19780416 | ES 1973-418572 | 19730907 |
| | SU 515459 | A3 | 19760525 | SU 1973-1962240 | 19730907 |
| | HU 168734 | B | 19760728 | HU 1973-B01461 | 19730907 |
| | CA 1000273 | A1 | 19761123 | CA 1973-180715 | 19730907 |
| | JP 49066695 | A | 19740627 | JP 1973-102014 | 19730910 |
| | JP 52029755 | B | 19770803 | | |
| | AT 7408451 | A | 19750915 | AT 1974-8451 | 19741021 |
| | AT 330370 | B | 19760625 | | |
| | US 3966916 | A | 19760629 | US 1974-525795 | 19741121 |
| | SU 533338 | A3 | 19761025 | SU 1975-2099424 | 19750120 |
| | NL 7512407 | A | 19760227 | NL 1975-12407 | 19751023 |
| PRAI | DE 1972-2244328 | A | 19720909 | | |
| | US 1973-393859 | A3 | 19730904 | | |
| | AT 1973-7784 | A | 19730907 | | |
| GI | For diagram(s), see printed CA Issue. | | | | |
| AB | Twenty-five benzyladenosines I [R1 = cyclopentyl, cyclohexyl, or 2-buten-1-yl; R2 = H, 2-Me, 2,5-Me ₂ , or S,2-Cl(MeO); R3 = H or Ac], useful as antilipolytic, hypo-lipemic, and hypcholesterolemic agents, were prepared by amination of the chloro derivative II with the benzylamines optionally followed by acylation. | | | | |
| IT | 52504-88-3P | 52504-89-9P | 52504-90-2P | | |
| | 52504-91-3P | 52504-94-6P | 52504-95-7P | | |
| | 52504-96-3P | 52504-97-9P | 52504-98-0P | | |
| | 52504-99-1P | 52505-00-7P | 52505-01-8P | | |
| | 52505-02-9P | 52505-03-0P | 52505-04-1P | | |
| | 52625-32-3P | 52724-53-5P | 52724-54-6P | | |
| | 52724-55-7P | 52724-56-8P | 52724-57-9P | | |
| | RL: SPN (Synthetic preparation); PREP (Preparation)
(preparation of) | | | | |
| RN | 52504-88-3 | CAPLUS | | | |
| CN | Adenosine, N-cyclohexyl-N-[(2-methylphenyl)methyl]- (9CI) (CA INDEX NAME) | | | | |
| Absolute stereochemistry. | | | | | |



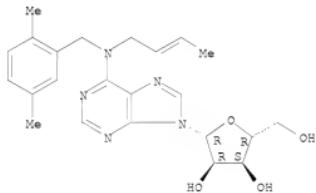
RN 52504-89-9 CAPLUS
 CN Adenosine, N-cyclopentyl-N-[(2,5-dimethylphenyl)methyl]- (9CI) (CA INDEX
 NAME)

Absolute stereochemistry.



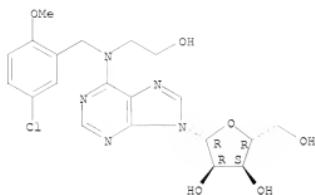
RN 52504-90-2 CAPLUS
 CN Adenosine, N-2-butene-1-yl-N-[(2,5-dimethylphenyl)methyl]- (9CI) (CA INDEX
 NAME)

Absolute stereochemistry.
 Double bond geometry unknown.



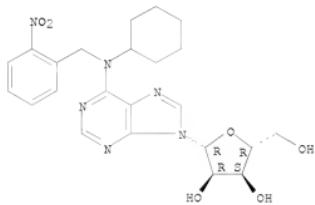
RN 52504-91-3 CAPLUS
 CN Adenosine, N-[(5-chloro-2-methoxyphenyl)methyl]-N-(2-hydroxyethyl)- (9CI)
 (CA INDEX NAME)

Absolute stereochemistry.



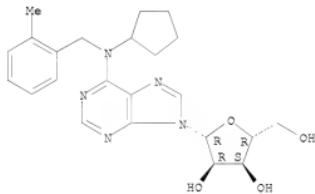
RN 52504-94-6 CAPLUS
CN Adenosine, N-cyclohexyl-N-[(2-nitrophenyl)methyl]- (9CI) (CA INDEX NAME)

Absolute stereocchemistry.



RN 52504-95-7 CAPLUS
CN Adenosine, N-cyclopentyl-N-[(2-methylphenyl)methyl]- (9CI) (CA INDEX NAME)

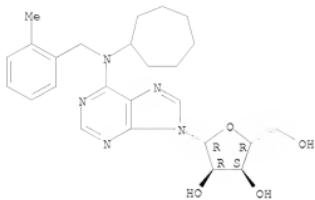
Absolute stereocchemistry.



RN 52504-96-8 CAPLUS
CN Adenosine, N-cycloheptyl-N-[(2-methylphenyl)methyl]- (9CI) (CA INDEX NAME)

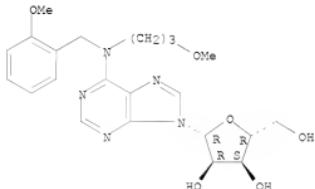
Absolute stereocchemistry.

10/540,993



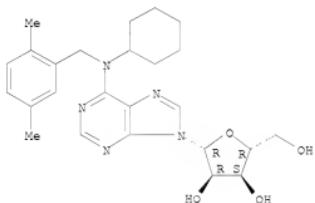
RN 52504-97-9 CAPLUS
CN Adenosine, N-[(2-methoxyphenyl)methyl]-N-(3-methoxypropyl)- (9CI) (CA INDEX NAME)

Absolute stereochemistry.



RN 52504-98-0 CAPLUS
CN Adenosine, N-cyclohexyl-N-[(2,5-dimethylphenyl)methyl]- (9CI) (CA INDEX NAME)

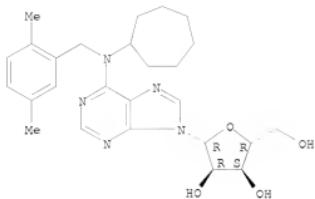
Absolute stereochemistry.



RN 52504-99-1 CAPLUS
CN Adenosine, N-cycloheptyl-N-[(2,5-dimethylphenyl)methyl]- (9CI) (CA INDEX NAME)

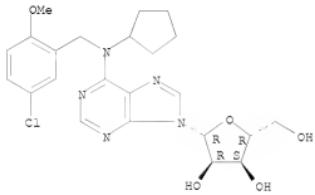
Absolute stereochemistry.

10/540,993



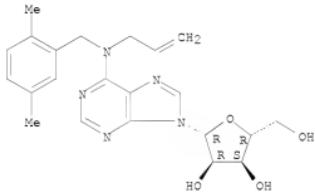
RN 52505-00-7 CAPLUS
CN Adenosine, N-[(5-chloro-2-methoxyphenyl)methyl]-N-cyclopentyl- (9CI) (CA INDEX NAME)

Absolute stereochemistry.



RN 52505-01-8 CAPLUS
CN Adenosine, N-[(2,5-dimethylphenyl)methyl]-N-2-propenyl- (9CI) (CA INDEX NAME)

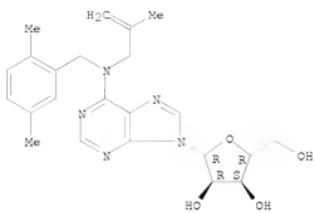
Absolute stereochemistry.



RN 52505-02-9 CAPLUS
CN Adenosine, N-[(2,5-dimethylphenyl)methyl]-N-(2-methyl-2-propenyl)- (9CI) (CA INDEX NAME)

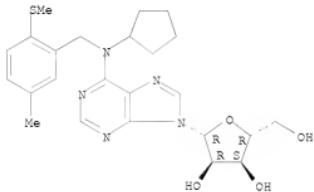
Absolute stereochemistry.

10/540,993



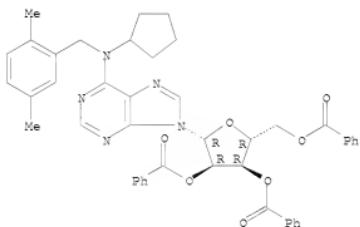
RN 52505-03-0 CAPLUS
CN Adenosine, N-cyclopentyl-N-[(5-methyl-2-(methylthio)phenyl)methyl]- (9CI)
(CA INDEX NAME)

Absolute stereochemistry.



RN 52505-04-1 CAPLUS
CN Adenosine, N-cyclopentyl-N-[(2,5-dimethylphenyl)methyl]-,
2',3',5'-tribenzoyl (9CI) (CA INDEX NAME)

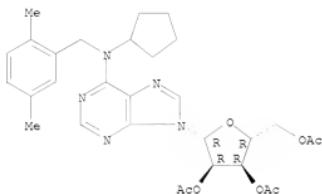
Absolute stereochemistry.



RN 52625-32-8 CAPLUS
CN Adenosine, N-cyclopentyl-N-[(2,5-dimethylphenyl)methyl]-,
2',3',5'-triacetate (9CI) (CA INDEX NAME)

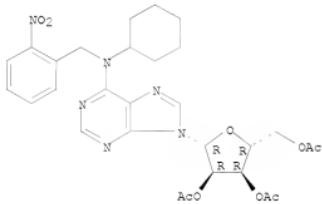
Absolute stereochemistry.

10/540,993



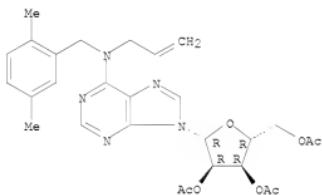
RN 52724-53-5 CAPLUS
CN Adenosine, N-cyclohexyl-N-[(2-nitrophenyl)methyl]-, 2',3',5'-triacetate
(9CI) (CA INDEX NAME)

Absolute stereochemistry.



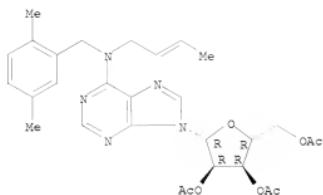
RN 52724-54-6 CAPLUS
CN Adenosine, N-[(2,5-dimethylphenyl)methyl]-N-2-propenyl-,
2',3',5'-triacetate (9CI) (CA INDEX NAME)

Absolute stereochemistry.



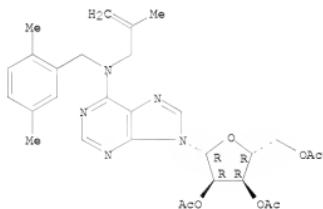
RN 52724-55-7 CAPLUS
CN Adenosine, N-2-butenyl-N-[(2,5-dimethylphenyl)methyl]-,
2',3',5'-triacetate (9CI) (CA INDEX NAME)

Absolute stereochemistry.
Double bond geometry unknown.



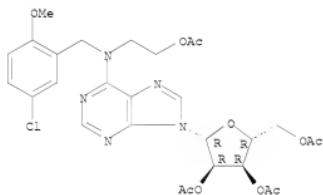
RN 52724-56-8 CAPLUS
 CN Adenosine, N-[2-(2,5-dimethylphenyl)methyl]-N-(2-methyl-2-propenyl)-,
 2',3',5'-triacetate (9CI) (CA INDEX NAME)

Absolute stereochemistry.



RN 52724-57-9 CAPLUS
 CN Adenosine, N-[2-(acetoxyloxy)ethyl]-N-[(5-chloro-2-methoxyphenyl)methyl]-,
 2',3',5'-triacetate (9CI) (CA INDEX NAME)

Absolute stereochemistry.



L5 ANSWER 216 OF 233 CAPLUS COPYRIGHT 2008 ACS on STN
 AN 1974:121282 CAPLUS
 DN 80:121282
 ORE 80:19535a, 19538a
 TI 2',3',5'-Tri-O-acetyl-N6-benzyladenosines
 IN Kampe, Wolfgang; Fauland, Erich; Thiel, Max; Roesch, Egon; Dietmann, Karl
 PA Boehringer Mannheim G.m.b.H.
 SO Ger. Offen., 12 pp.
 CODEN: GWXXBX

DT Patent

LA German

FAN.CNT 1

PATENT NO.

KIND

DATE

APPLICATION NO.

DATE

| | | | |
|---------------|-------------|-----------------|----------|
| PI DE 2238923 | A1 19740214 | DE 1972-2238923 | 19720808 |
| CA 1003411 | A1 19770111 | CA 1973-177826 | 19730731 |
| GB 1384518 | A 19750219 | GB 1973-36489 | 19730801 |
| ES 417471 | A1 19760301 | ES 1973-417471 | 19730801 |
| AU 7358857 | A 19750206 | AU 1973-58857 | 19730802 |
| CH 579587 | A5 19760915 | CH 1973-11307 | 19730803 |
| FR 2195434 | A1 19740308 | FR 1973-28648 | 19730806 |
| ZA 7305331 | A 19740828 | ZA 1973-5331 | 19730806 |
| NL 7310870 | A 19740212 | NL 1973-10870 | 19730807 |
| AT 7306918 | A 19750115 | AT 1973-6918 | 19730807 |
| AI 325784 | B 19751110 | | |
| JP 49045095 | A 19740427 | JP 1973-89161 | 19730808 |

PRAI DE 1972-2238923 A 19720808

GI For diagram(s), see printed CA Issue.

AB Eight acyladenosines I ($R = \text{Bz}$, Bz_2 , or nicotinoyl , $\text{Rn1} = 2\text{-Me}$, $2,5\text{-Me}_2$, $2,4,5\text{-Me}_3$, $2,5\text{-MeOCl}$, or $2,5\text{-MeSCl}$) were prepared in 45-85% yield by acylation of I ($R = \text{H}$) with AcCO , BzCl , or nicotinoyl azide. The acyl derivs. had longer lasting effects on blood vessels and circulation than the starting compds. I ($R = \text{H}$).

IT 23707-33-0 34349-31-0 34349-36-5

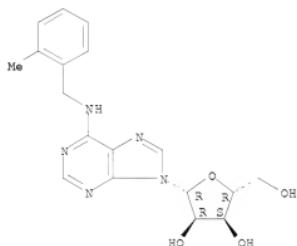
34349-38-7 52622-05-6

RL: RCT (Reactant); RACT (Reactant or reagent)
(acylation of)

RN 23707-33-7 CAPLUS

CN Adenosine, N-[(2-methylphenyl)methyl]- (CA INDEX NAME)

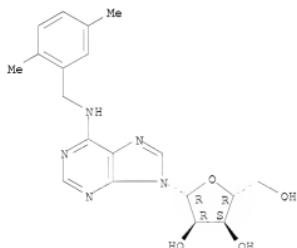
Absolute stereochemistry.



RN 34349-31-0 CAPLUS

CN Adenosine, N-[(2,5-dimethylphenyl)methyl]- (9CI) (CA INDEX NAME)

Absolute stereochemistry.

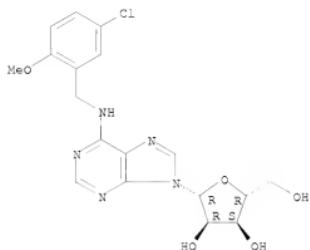


RN 34349-36-5 CAPLUS

CN Adenosine, N-[(5-chloro-2-methoxyphenyl)methyl]- (9CI) (CA INDEX NAME)

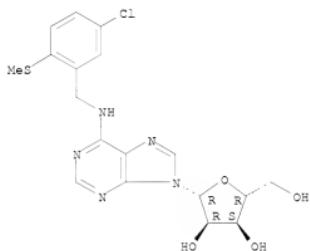
10/540, 993

Absolute stereochemistry.



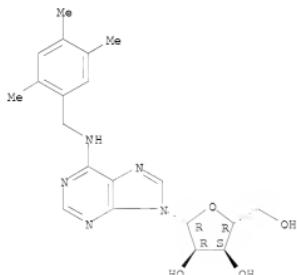
RN 34349-38-7 CAPIUS
CN Adenosine, N-[{5-chloro-2-(methylthio)phenyl}methyl]- (9CI) (CA INDEX NAME)

Absolute stereochemistry.



RN 52622-05-6 CAPIUS
CN Adenosine, N-[{(2,4,5-trimethylphenyl)methyl}- (9CI) (CA INDEX NAME)

Absolute stereochemistry.



McIntosh

10/540,993

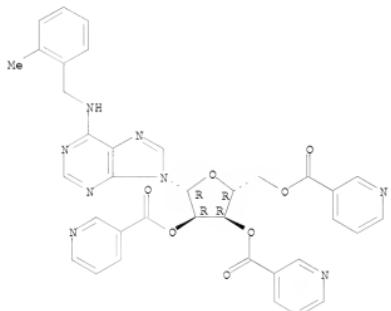
IT 50991-70-3P 50991-71-4P 52622-00-1P
52622-01-2P 52622-02-3P 52622-03-4P

52622-04-5P 52659-41-3P
RL: SPN (Synthetic preparation); PREP (Preparation)
(preparation of)

RN 50991-70-3 CAPLUS

CN Adenosine, N-[(2-methylphenyl)methyl]-, 2',3',5'-tri-3-pyridinecarboxylate
(9CI) (CA INDEX NAME)

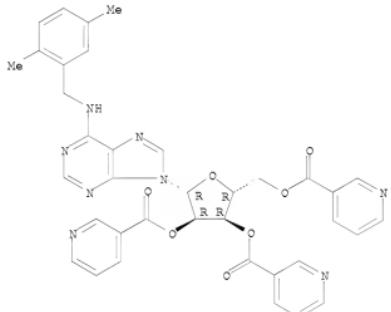
Absolute stereochemistry.



RN 50991-71-4 CAPLUS

CN Adenosine, N-[(2,5-dimethylphenyl)methyl]-, 2',3',5'-tri-3-pyridinecarboxylate (9CI) (CA INDEX NAME)

Absolute stereochemistry.

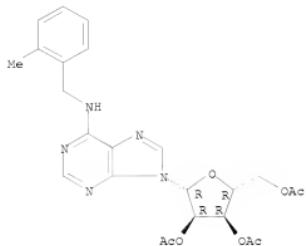


RN 52622-00-1 CAPLUS

CN Adenosine, N-[(2-methylphenyl)methyl]-, 2',3',5'-triacetate (9CI) (CA INDEX NAME)

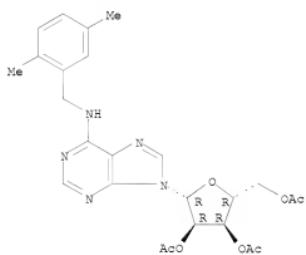
Absolute stereochemistry.

McIntosh



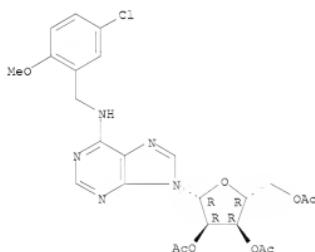
RN 52622-01-2 CAPLUS
 CN Adenosine, N-[(2,5-dimethylphenyl)methyl]-, 2',3',5'-triacetate (9CI) (CA INDEX NAME)

Absolute stereochemistry.



RN 52622-02-3 CAPLUS
 CN Adenosine, N-[(5-chloro-2-methoxyphenyl)methyl]-, 2',3',5'-triacetate (9CI) (CA INDEX NAME)

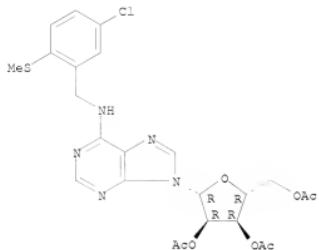
Absolute stereochemistry.



RN 52622-03-4 CAPLUS
 CN Adenosine, N-[(5-chloro-2-(methylthio)phenyl)methyl]-, 2',3',5'-triacetate (9CI) (CA INDEX NAME)

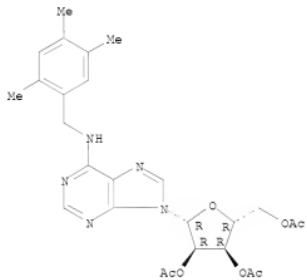
10/540,993

Absolute stereochemistry.



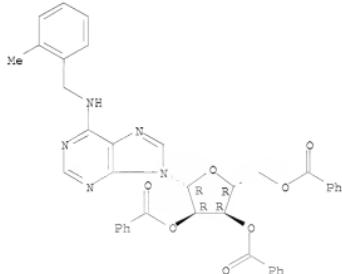
RN 52622-04-3 CAPLUS
CN Adenosine, N-[(2,4,5-trimethylphenyl)methyl]-, 2',3',5'-triacetate (9CI)
(CA INDEX NAME)

Absolute stereochemistry.



RN 52659-41-3 CAPLUS
CN Adenosine, N-[(2-methylphenyl)methyl]-, 2',3',5'-tribenzoate (9CI) (CA INDEX NAME)

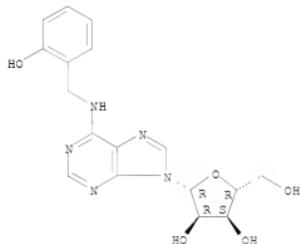
Absolute stereochemistry.



McIntosh

L5 ANSWER 217 OF 233 CAPLUS COPYRIGHT 2008 ACS on STN
 AN 1974193268 CAPLUS
 DN 80:93268
 OREF 80:14999a,15002a
 TI Cytokinins in Populus x robusta. Light effects on endogenous levels
 AU Hewett, E. N.; Wareing, P. F.
 CS Dep. Bot. Microbiol., Univ. Coll. Wales, Aberystwyth, UK
 SO Planta (1973), 114(2), 119-29
 CODEN: PLANAB; ISSN: 0032-0935
 DT Journal
 LA English
 AB Cytokinin levels in both attached and detached mature leaves of poplar (*P. robusta*) increased transiently after short periods of exposure to red light. The degree and rapidity of response seems dependent on the physiol. condition of the leaves. The cytokinin, 6-(2-hydroxybenzyl)aminopurine riboside, specifically increased after red light treatment. Diurnal changes of leaf cytokinins occurred, with a pronounced peak of activity being present at daybreak.
 IT 50865-58-1
 RL: BIOL (Biological study)
 (of poplar, red light effect on)
 RN 50865-58-1 CAPLUS
 CN Adenosine, N-[(2-hydroxyphenyl)methyl]- (CA INDEX NAME)

Absolute stereocchemistry.



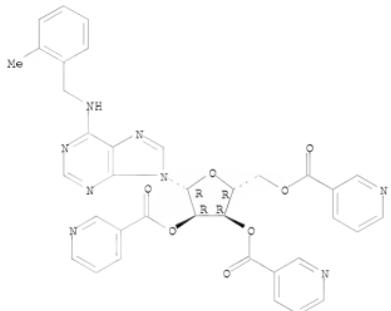
L5 ANSWER 218 OF 233 CAPLUS COPYRIGHT 2008 ACS on STN
 AN 1974127453 CAPLUS
 DN 80:27453
 OREF 80:4536n,4537a
 TI 2',3',5'-Tri-O-nicotinoyl-N-(2-methylbenzyl)adenosines
 IN Flohr, Hans; Fakhrai, Mohsen
 SO Ger. Offen., 8 pp.
 CODEN: GWXXBX
 DT Patent
 LA German
 FAN.CNT 1

| | PATENT NO. | KIND | DATE | APPLICATION NO. | DATE |
|------|--|------------------|----------|-----------------|----------|
| PI | DE 2218553 | A1 | 19731108 | DE 1972-2218553 | 19720417 |
| | DE 2218553 | B2 | 19770714 | | |
| PRAI | DE 1972-2218553 | A | 19720417 | | |
| GI | For diagram(s), see printed CA Issue. | | | | |
| AB | The adenosines I (R = H or Me), useful for the treatment of coronary and peripheral blood circulation insufficiency and as antihypertensives and antisclerotics, were prepared by successive reaction of adenosine with nicotinoyl chloride in pyridine and 5,2-RMeC6H3CH2NH2 in Me2CHOH-(Me2CH)2NH. | | | | |
| IT | 50991-70-3P | 50991-71-4P | | | |
| | RL: SPN (Synthetic preparation); PREP (Preparation) | (preparation of) | | | |
| RN | 50991-70-3 | CAPLUS | | | |

10/540,993

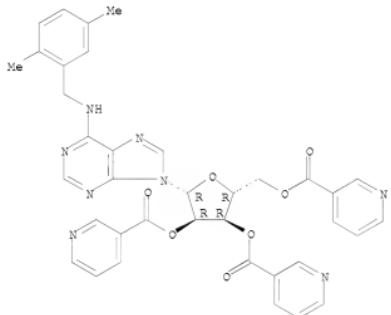
CN Adenosine, N-[(2-methylphenyl)methyl]-, 2',3',5'-tri-3-pyridinecarboxylate
(9CI) (CA INDEX NAME)

Absolute stereochemistry.



RN 50991-71-4 CAPLUS
CN Adenosine, N-[(2,5-dimethylphenyl)methyl]-, 2',3',5'-tri-3-pyridinecarboxylate (9CI) (CA INDEX NAME)

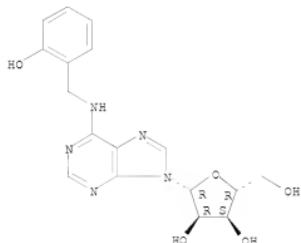
Absolute stereochemistry.



LS ANSWER 219 OF 233 CAPLUS COPYRIGHT 2008 ACS on STN
AN 1973:534312 CAPLUS
DN 79:134312
OREF 79:21771a,21774a
II New cytokinin from *Populus robusta*
AU Horgan, R.; Hewett, E. W.; Purse, J. G.; Wareing, P. F.
CS Dep. Bot. Microbiol., Univ. Coll. Wales, Aberystwyth, UK
SO Tetrahedron Letters (1973), (30), 2827-8
CODEN: TELEAY; ISSN: 0040-4039
DT Journal
LA English
GI For diagram(s), see printed CA Issue.
AB A new cytokinin was isolated from the leaves of *P. robusta* and shown to be

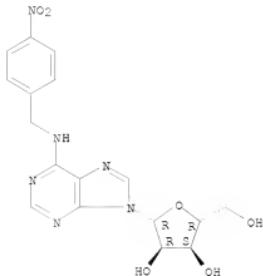
6-[(o-hydroxybenzyl)amino]-9- β -D-ribofuranosylpurine (I).
 IT 50868-58-1
 RL: BIOL (Biological study)
 (in *Populus robusta*)
 RN 50868-58-1 CAPLUS
 CN Adenosine, N-[(2-hydroxyphenyl)methyl]- (CA INDEX NAME)

Absolute stereochemistry.



LS ANSWER 220 OF 233 CAPLUS COPYRIGHT 2008 ACS on STN
 AN 19731413413 CAPLUS
 DN 79:13413
 OREF 79:2119a,2122a
 TI Inhibitors of nucleoside and nucleotide metabolism
 AU Henderson, J. F.; Paterson, A. R. P.; Caldwell, I. C.; Paul, B.; Chan, M. C.; Lau, K. F.
 CS Cancer Res. Unit, Univ. Alberta, Edmonton, AB, Can.
 SO Cancer Chemotherapy Reports, Part 2 (1973), 3(1), 71-85
 CODEN: CCSUBJ; ISSN: 0069-0120
 DT Journal
 LA English
 AB A total of 164 purine and pyrimidine derivs. and analogs were screened for inhibition of nucleoside and nucleotide metab in 4 test systems. Among a number of potent inhibitors identified, N6-(3-methyl-2-butanyl)-adenosine [77121-76-7] and 4-(dimethylamino)-7- β -D-ribofuranosyl-7H-pyrrolo[2,3-d]pyrimidine (I) [20371-00-0] inhibited de novo purine biosynthesis in incubated Ehrlich ascites tumor cells, α -(amino-9H-purin-9-yl)- α '-(hydroxymethyl)diglycolaldehyde-bis(phenylhydrazone) (II) [40297-52-7] inhibited adenine phosphoribosyltransferase [9027-80-9] from Ehrlich ascites tumor cells, 4-amino-5-ido-7- β -D-ribofuranosyl-7H-pyrrolo[2,3-d]pyrimidine [24386-93-4] inhibited adenine kinase [9027-72-9] activity in tumor cell exts., and 2-amino-6-[(p-fluorobenzyl)thio]-9- β -D-ribofuranosyl-9H-purine (III) [40297-53-8] and N6-(p-nitrobenzyl)-adenosine [40297-54-9] inhibited nucleoside transport (inosine synthesis) in incubated human erythrocytes.
 IT 40297-54-9
 RL: BIOL (Biological study)
 (inosine formation by erythrocytes in response to)
 RN 40297-54-9 CAPLUS
 CN Adenosine, N-[(4-nitrophenyl)methyl]- (9CI) (CA INDEX NAME)

Absolute stereochemistry.



15 ANSWER 221 OF 233 CAPLUS COPYRIGHT 2008 ACS on STN
 AN 1973124846 CAPLUS

DN 78:124846

OREF 78:20071a, 20074a

TI N-Benzyladenosine derivatives
 IN Rampe, Wolfgang; Fauland, Erich; Thiel, Max; Juhran, Wolfgang; Stork, Harald

PA Boehringer Mannheim G.m.b.H.

SO Ger. Offen., 20 pp.

CODEN: GWXXBX

DT Patent

LA German

FAN.CNT 1

| PATENT NO. | KIND | DATE | APPLICATION NO. | DATE |
|------------|------|----------|-----------------|----------|
| DE 2136624 | A | 19730208 | DE 1971-2136624 | 19710722 |
| GB 1340643 | A | 19731212 | GB 1972-33537 | 19720618 |
| US 3645035 | A | 19741029 | US 1972-271098 | 19720712 |
| ZA 7204891 | A | 19730530 | ZA 1972-4891 | 19720717 |
| CH 569035 | A5 | 19751114 | CH 1975-10617 | 19720719 |
| CH 570420 | A5 | 19751215 | CH 1972-10795 | 19720719 |
| NL 7210023 | A | 19730124 | NL 1972-10023 | 19720720 |
| ES 405022 | A1 | 19750716 | ES 1972-405022 | 19720720 |
| CA 979891 | A1 | 19751216 | CA 1972-147625 | 19720720 |
| SU 539532 | A3 | 19761215 | SU 1972-1812966 | 19720720 |
| FR 2146493 | A1 | 19730302 | FR 1972-26450 | 19720721 |
| AT 317446 | B | 19740826 | AT 1972-6288 | 19720721 |
| AT 790673 | A | 19750415 | AT 1973-7906 | 19720721 |

PRAI DE 1971-2136624 A 19710722

GI For diagram(s), see printed CA Issue.

AB Thirty-three title compds. (I; X = NHCH2C6H5-nRn; R: = Cl, OH NH2 or Br; Rn = e.g. 2-OH, 3,2-HOMe, 2,6-HOCl, 2,4- HOCl) were prepared by reaction of I (X = Cl) containing free or acetyl group-protected OH-groups with H2NCH2C6H5-nRn or from the adenosine derivative and ClCH2C6H5nRn. I had circulatory and antilipemic effects.

IT 40297-54-9P 40896-25-1P 40896-26-2P

40896-27-3P 40896-28-4P 40896-29-5P

40896-30-8P 40896-31-9P 40896-32-0P

40896-33-1P 40896-34-2P 40896-35-3P

40896-36-4P 40896-37-5P 40896-38-6P

40896-39-7P 40896-40-0P 40896-41-1P

40896-42-2P 40896-43-3P 40896-45-5P

40896-46-6P 40896-47-7P 40896-48-8P

40896-49-9P 40896-50-2P 40896-51-3P

40896-52-4P 40896-53-5P 40958-94-9P

40958-95-0P 40958-96-1P 40958-97-2P

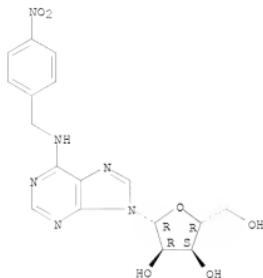
RL: SPM (Synthetic preparation); PREP (Preparation)
 (preparation of)

RN 40297-54-9 CAPLUS

CN Adenosine, N-[(4-nitrophenyl)methyl]- (9CI) (CA INDEX NAME)

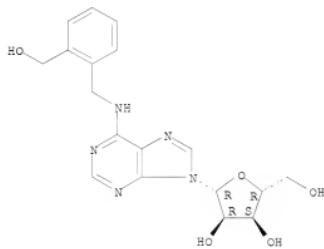
10/540,993

Absolute stereochemistry.



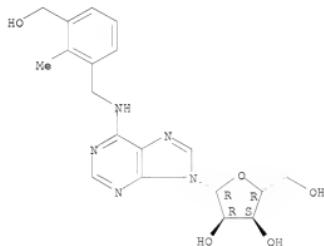
RN 40896-25-1 CAPLUS
CN Adenosine, N-[(2-(hydroxymethyl)phenyl)methyl]- (9CI) (CA INDEX NAME)

Absolute stereochemistry.



RN 40896-26-2 CAPLUS
CN Adenosine, N-[(3-(hydroxymethyl)-2-methylphenyl)methyl]- (9CI) (CA INDEX NAME)

Absolute stereochemistry.



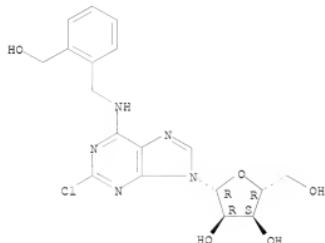
RN 40896-27-3 CAPLUS

McIntosh

10/540,993

CN Adenosine, 2-chloro-N-[(2-(hydroxymethyl)phenyl)methyl]- (9CI) (CA INDEX NAME)

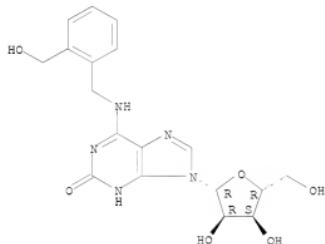
Absolute stereochemistry.



RN 40896-26-4 CAPLUS

CN 2H-Purin-2-one, 1,9-dihydro-6-[(2-(hydroxymethyl)phenyl)methylamino]-9-
β-D-ribofuranosyl- (9CI) (CA INDEX NAME)

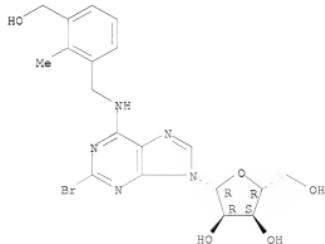
Absolute stereochemistry.



RN 40896-29-5 CAPLUS

CN Adenosine, 2-bromo-N-[(3-(hydroxymethyl)-2-methylphenyl)methyl]- (9CI)
(CA INDEX NAME)

Absolute stereochemistry.

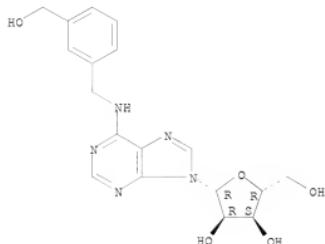


McIntosh

10/540,993

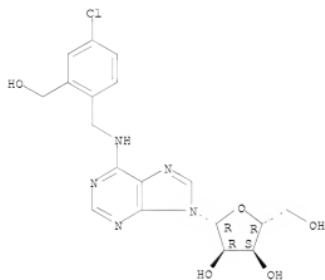
RN 40896-30-8 CAPLUS
CN Adenosine, N-[(3-(hydroxymethyl)phenyl)methyl]- (9CI) (CA INDEX NAME)

Absolute stereochemistry.



RN 40896-31-9 CAPLUS
CN Adenosine, N-[(4-chloro-2-(hydroxymethyl)phenyl)methyl]- (9CI) (CA INDEX NAME)

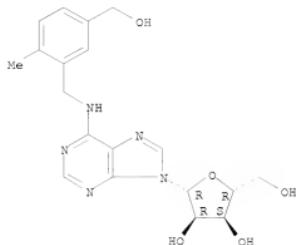
Absolute stereochemistry.



RN 40896-32-0 CAPLUS
CN Adenosine, N-[(5-(hydroxymethyl)-2-methylphenyl)methyl]- (9CI) (CA INDEX NAME)

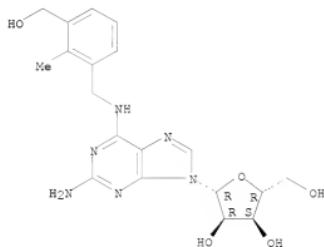
Absolute stereochemistry.

10/540, 993



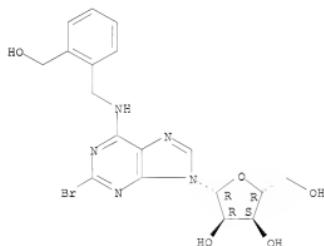
RN 40896-33-1 CAPLUS
CN Adenosine, 2-amino-N-[(3-(hydroxymethyl)-2-methylphenyl)methyl]- (9CI)
(CA INDEX NAME)

Absolute stereochemistry.



RN 40896-34-2 CAPLUS
CN Adenosine, 2-bromo-N-[(2-(hydroxymethyl)phenyl)methyl]- (9CI) (CA INDEX NAME)

Absolute stereochemistry.

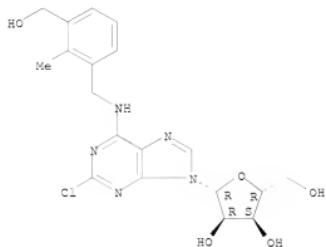


RN 40896-35-3 CAPLUS
CN Adenosine, 2-chloro-N-[(3-(hydroxymethyl)-2-methylphenyl)methyl]- (9CI)
(CA INDEX NAME)

McIntosh

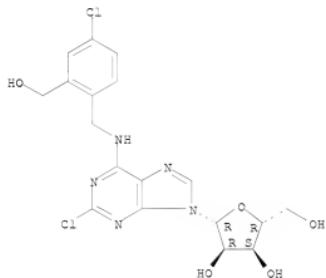
10/540,993

Absolute stereochemistry.



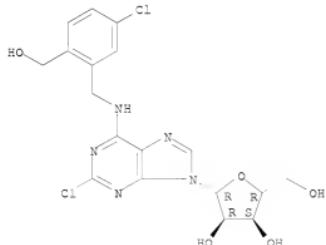
RN 40896-36-4 CAPLUS
CN Adenosine, 2-chloro-N-[(4-chloro-2-(hydroxymethyl)phenyl)methyl]- (9CI)
(CA INDEX NAME)

Absolute stereochemistry.



RN 40896-37-5 CAPLUS
CN Adenosine, 2-chloro-N-[(5-chloro-2-(hydroxymethyl)phenyl)methyl]- (9CI)
(CA INDEX NAME)

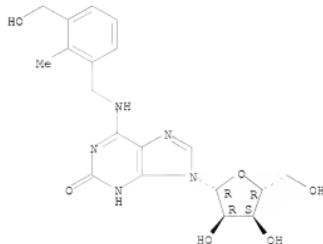
Absolute stereochemistry.



10/540,993

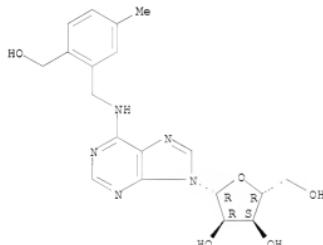
RN 40896-38-6 CAPLUS
CN 2H-Purin-2-one, 1,9-dihydro-6-[[[3-(hydroxymethyl)-2-methylphenyl]methyl]amino]-9- β -D-ribofuranosyl- (9CI) (CA INDEX NAME)

Absolute stereochemistry.



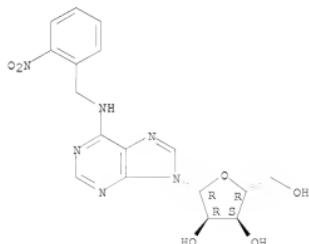
RN 40896-39-7 CAPLUS
CN Adenosine, N-[(2-(hydroxymethyl)-5-methylphenyl)methyl]- (9CI) (CA INDEX NAME)

Absolute stereochemistry.



RN 40896-40-0 CAPLUS
CN Adenosine, N-[(2-nitrophenyl)methyl]- (CA INDEX NAME)

Absolute stereochemistry.

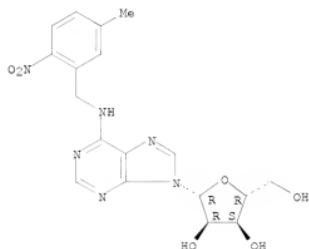


McIntosh

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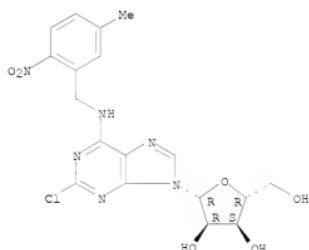
RN 40896-41-1 CAPLUS
CN Adenosine, N-[(5-methyl-2-nitrophenyl)methyl]- (9CI) (CA INDEX NAME)

Absolute stereochemistry.



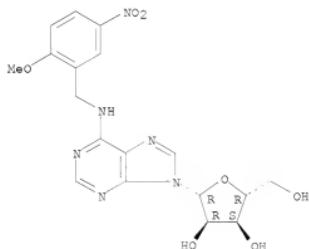
RN 40896-42-2 CAPLUS
CN Adenosine, 2-chloro-N-[(5-methyl-2-nitrophenyl)methyl]- (9CI) (CA INDEX NAME)

Absolute stereochemistry.



RN 40896-43-3 CAPLUS
CN Adenosine, N-[(2-methoxy-5-nitrophenyl)methyl]- (9CI) (CA INDEX NAME)

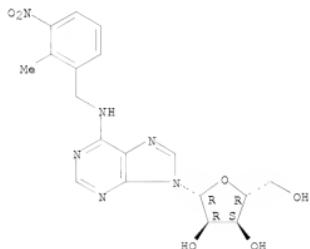
Absolute stereochemistry.



10/540,993

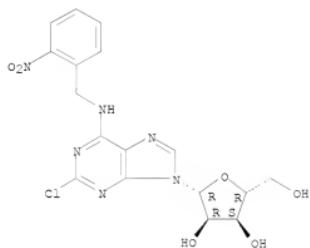
RN 40896-45-5 CAPLUS
CN Adenosine, N-[(2-methyl-3-nitrophenyl)methyl]- (9CI) (CA INDEX NAME)

Absolute stereochemistry.



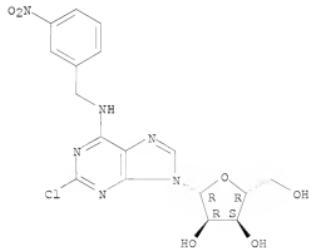
RN 40896-46-6 CAPLUS
CN Adenosine, 2-chloro-N-[(2-nitrophenyl)methyl]- (9CI) (CA INDEX NAME)

Absolute stereochemistry.



RN 40896-47-7 CAPLUS
CN Adenosine, 2-chloro-N-[(3-nitrophenyl)methyl]- (9CI) (CA INDEX NAME)

Absolute stereochemistry.



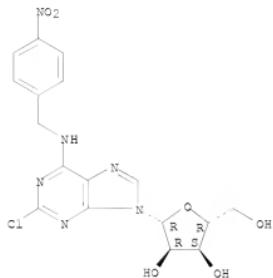
RN 40896-48-8 CAPLUS

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CN Adenosine, 2-chloro-N-[(4-nitrophenyl)methyl]- (9CI) (CA INDEX NAME)

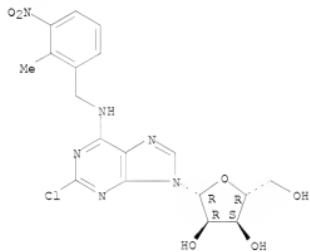
Absolute stereocchemistry.



RN 40896-49-9 CAPLUS

CN Adenosine, 2-chloro-N-[(2-methyl-3-nitrophenyl)methyl]- (9CI) (CA INDEX NAME)

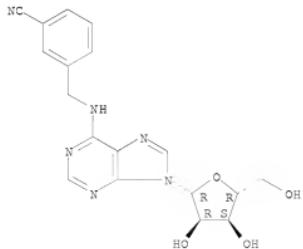
Absolute stereocchemistry.



RN 40896-50-2 CAPLUS

CN Benzonitrile, 3-[[((9-β-D-ribofuranosyl-9H-purin-6-yl)amino)methyl]- (CA INDEX NAME)

Absolute stereocchemistry.

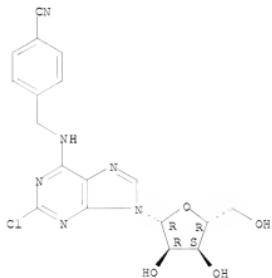


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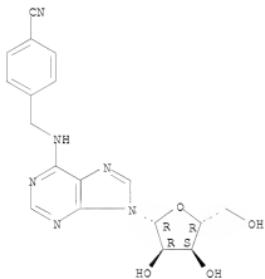
RN 40896-51-3 CAPLUS
CN Benzonitrile, 4-[[((2-chloro-9- β -D-ribofuranosyl-9H-purin-6-yl)amino)methyl]- (CA INDEX NAME)

Absolute stereocchemistry.



RN 40896-52-4 CAPLUS
CN Adenosine, N-[(4-cyanophenyl)methyl]- (CA INDEX NAME)

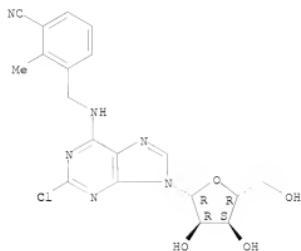
Absolute stereocchemistry.



RN 40896-53-5 CAPLUS
CN Benzonitrile, 3-[[((2-chloro-9- β -D-ribofuranosyl-9H-purin-6-yl)amino)methyl]-2-methyl- (CA INDEX NAME)

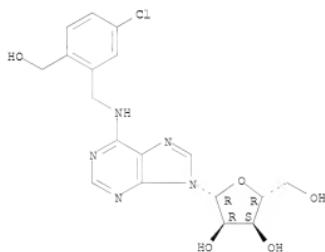
Absolute stereocchemistry.

10/540, 993



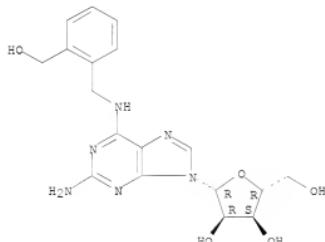
RN 40958-94-9 CAPLUS
CN Adenosine, N-[(5-chloro-2-(hydroxymethyl)phenyl)methyl]- (9CI) (CA INDEX NAME)

Absolute stereochemistry.



RN 40958-93-0 CAPLUS
CN Adenosine, 2-amino-N-[(2-(hydroxymethyl)phenyl)methyl]- (9CI) (CA INDEX NAME)

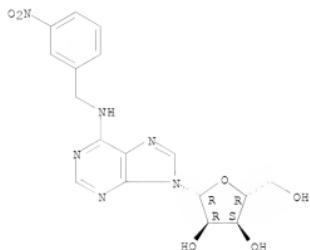
Absolute stereochemistry.



RN 40958-96-1 CAPLUS
CN Adenosine, N-[(3-nitrophenyl)methyl]- (9CI) (CA INDEX NAME)

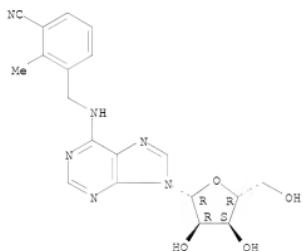
Absolute stereochemistry.

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RN 40958-97-2 CAPLUS
 CN Adenosine, N-[(3-cyano-2-methylphenyl)methyl]- (9CI) (CA INDEX NAME)

Absolute stereochemistry.



LS ANSWER 222 OF 233 CAPLUS COPYRIGHT 2008 ACS on STN
 AN 19721502140 CAPLUS
 DN 77102140
 OREF 7716847a,16850a
 TI N-[(Hydrazinocarbonyl)phenyl]alkyladenosines
 IN Jahn, Werner; Kampe, Wolfgang; Fauland, Erich; Juhran, Wolfgang; Stork, Harald

PA Boehringer Mannheim G.m.b.H.
 SO Ger. Offen., 14 pp.
 CODEN: GMXXBX

DT Patent
 LA German
 FAN.CNT 1

| | PATENT NO. | KIND | DATE | APPLICATION NO. | DATE |
|----|------------|------|----------|-----------------|----------|
| PI | DE 2060189 | A | 19720615 | DE 1970-2060189 | 19701208 |
| | US 3787391 | A | 19740122 | US 1971-201174 | 19711122 |
| | NL 7116564 | A | 19720612 | NL 1971-16564 | 19711202 |
| GU | 1313459 | A | 19730411 | GB 1971-56025 | 19711202 |
| SU | 444368 | A3 | 19740925 | SU 1971-1721738 | 19711202 |
| ES | 397613 | A1 | 19750316 | ES 1971-397613 | 19711202 |
| AU | 7136492 | A | 19730607 | AU 1971-36492 | 19711203 |
| CH | 567045 | A5 | 19750930 | CH 1971-17640 | 19711203 |
| CH | 568330 | A5 | 19751031 | CH 1975-8284 | 19711203 |
| CH | 568331 | A5 | 19751031 | CH 1975-8285 | 19711203 |
| ZA | 7108177 | A | 19720927 | ZA 1971-8177 | 19711207 |
| HU | 163227 | B | 19730728 | HU 1971-B01335 | 19711207 |
| AT | 312172 | B | 19731227 | AT 1971-10593 | 19711207 |

| | | | | |
|------------|----|----------|-----------------|----------|
| AT 318821 | B | 19741125 | AT 1972-9168 | 19711207 |
| AT 318822 | B | 19741125 | AT 1972-9169 | 19711207 |
| CA 960656 | A1 | 19750107 | CA 1971-129590 | 19711207 |
| FR 2117935 | A5 | 19720728 | FR 1971-43996 | 19711208 |
| FR 2117935 | B1 | 19750314 | | |
| SU 515454 | A3 | 19760525 | SU 1973-1959114 | 19730824 |
| SU 576955 | A3 | 19771015 | SU 1973-1959113 | 19730824 |

PRAI DE 1970-2060183 A 19701208

GI For diagram(s), see printed CA Issue.

AB Fourteen title compds. (I, 2-, 3-, 4-, or 5-CONHNHR; Q = CH₂, CH₂CH₂, CH₂CH₂O; R = H, 2-Me, 3-Cl; R1 = H, p-ClC₆H₄CO, p-MeC₆H₄CO, p-HOCH₂CH₂OOC₆H₄CO, o-MeC₆H₄CO), useful as blood-circulation-active and serum-lipids-lowering agents, were prepared by reaction of tri-O-acetyladenosine with R(R1HNNR)C₆H₃QBr or of adenosine N-(R(FcO₂)C₆H₃Q) derivative with NH₄.H₂O.

IT 38790-41-9P 38790-42-0P 38790-43-1P
38790-44-2P 38790-46-4P 38790-47-5P
38790-48-6P 38790-49-7P 38790-50-0P

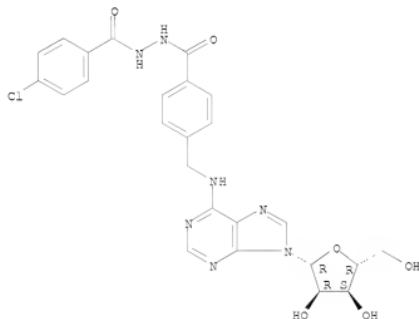
38790-52-2P 38937-31-4P

RL: CPN (Synthetic preparation); PREP (Preparation)
(preparation of)

RN 38790-41-9 CAPLUS

CN Benzoic acid, 4-chloro-, 2-[4-[(9-β-D-ribofuranosyl-9H-purin-6-yl)amino]methyl]benzoyl]hydrazide (CA INDEX NAME)

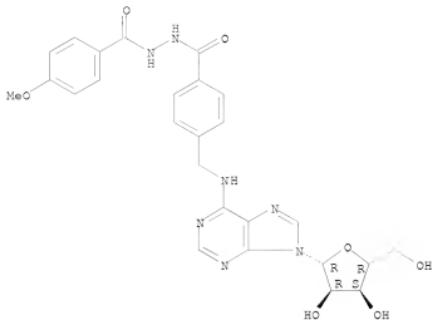
Absolute stereochemistry.



RN 38790-42-0 CAPLUS

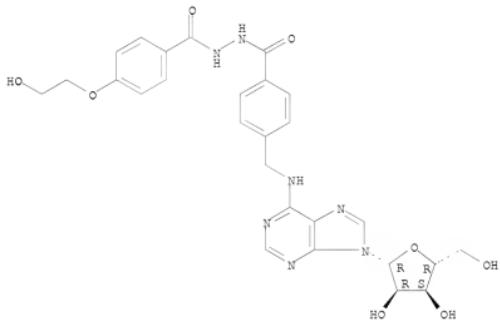
CN Benzoic acid, 4-methoxy-, 2-[4-[(9-β-D-ribofuranosyl-9H-purin-6-yl)amino]methyl]benzoyl]hydrazide (CA INDEX NAME)

Absolute stereochemistry.



RN 38790-43-1 CAPLUS
CN Benzoinic acid, 4-(2-hydroxyethoxy)-, 2-[4-[(9- β -D-ribofuranosyl-9H-purin-6-yl)amino]methyl]benzoyl]hydrazide (CA INDEX NAME)

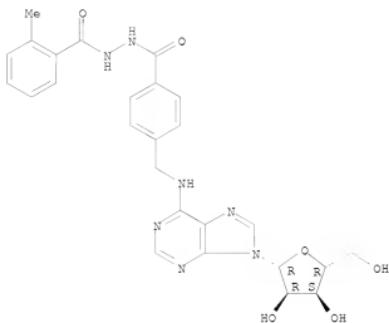
Absolute stereochemistry.



RN 38790-44-2 CAPLUS
CN Benzoic acid, 2-methyl-, 2-[4-[(9- β -D-ribofuranosyl-9H-purin-6-yl)amino]methyl]benzoyl]hydrazide (CA INDEX NAME)

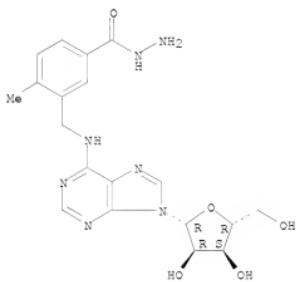
Absolute stereochemistry.

10/540,993



RN 38790-46-4 CAPLUS
CN Benzoic acid, 4-methyl-3-[(9- β -D-ribofuranosyl-9H-purin-6-yl)amino]methyl-, hydrazide (CA INDEX NAME)

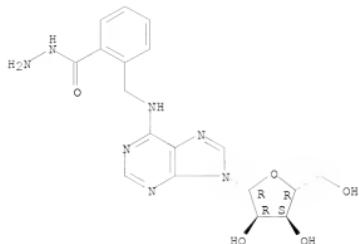
Absolute stereochemistry.



RN 38790-47-5 CAPLUS
CN Benzoic acid, 2-[(9- β -D-ribofuranosyl-9H-purin-6-yl)amino]methyl-, hydrazide (CA INDEX NAME)

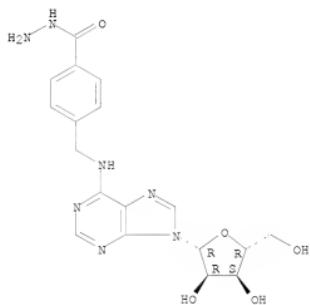
Absolute stereochemistry.

10/540, 993



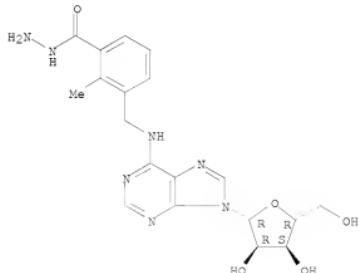
RN 38790-48-6 CAPLUS
CN Benzocaine, 4-[[(>β-D-ribosyl-9H-purin-6-yl)amino]methyl]-, hydrazide (CA INDEX NAME)

Absolute stereochemistry.



RN 38790-49-7 CAPLUS
CN Benzocaine, 2-methyl-3-[[(>β-D-ribosyl-9H-purin-6-yl)aminomethyl]-, hydrazide (CA INDEX NAME)

Absolute stereochemistry.

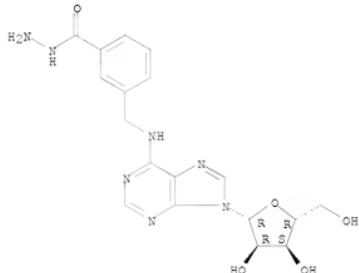


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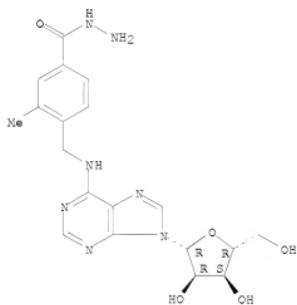
RN 38790-50-0 CAPLUS
CN Benzoic acid, 3-[[((9- β -D-ribofuranosyl-9H-purin-6-yl)amino)methyl]-, hydrazide (CA INDEX NAME)

Absolute stereocchemistry.



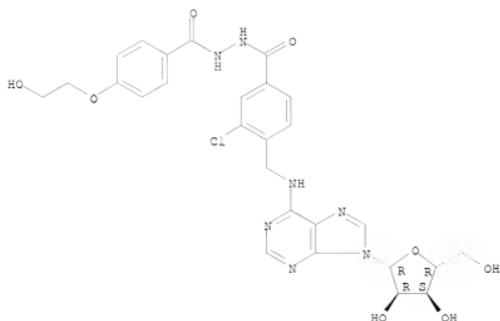
RN 38790-52-2 CAPLUS
CN Benzoic acid, 3-methyl-[[((9- β -D-ribofuranosyl-9H-purin-6-yl)amino)methyl]-, hydrazide (SCI) (CA INDEX NAME)

Absolute stereocchemistry.



RN 38937-31-4 CAPLUS
CN Benzoic acid, 3-chloro-4-[[((9- β -D-ribofuranosyl-9H-purin-6-yl)amino)methyl]-, 2-[4-(2-hydroxyethoxy)benzoyl]hydrazide (CA INDEX NAME)

Absolute stereocchemistry.



L5 ANSWER 223 OF 233 CAPLUS COPYRIGHT 2008 ACS on STN
 AN 1972:502139 CAPLUS
 DN 77:102139
 OREF 77:16847a,16850a
 TI N-(Acylbenzyl- and -phenethyl)adenosines
 IN Rampe, Wolfgang; Fauland, Erich; Stork, Harald; Juhran, Wolfgang;
 Dietmann, Karl
 PA Boehringer Mannheim G.m.b.H.
 SO Ger. Offen., 20 pp.
 CODEN: GMXXBX

DT Patent
 LA German
 FAN.CNT 1

| PATENT NO. | KIND | DATE | APPLICATION NO. | DATE |
|------------|------|----------|-----------------|----------|
| DE 2059922 | A | 19720615 | DE 1970-2059922 | 19701205 |
| US 3817981 | A | 19740618 | US 1971-199727 | 19711117 |
| SU 469253 | A3 | 19750430 | SU 1971-1723201 | 19711130 |
| SU 506294 | A3 | 19760305 | SU 1971-1913745 | 19711130 |
| NL 7116563 | A | 19720607 | NL 1971-16563 | 19711202 |
| GB 1313290 | A | 19730411 | GB 1971-56024 | 19711202 |
| ES 397612 | A1 | 19750316 | ES 1971-397612 | 19711202 |
| CH 567044 | A5 | 19750930 | CH 1971-17633 | 19711202 |
| CH 573445 | A5 | 19760315 | CH 1975-8318 | 19711202 |
| FR 2116517 | A5 | 19720713 | FR 1971-43419 | 19711203 |
| FR 2116517 | B1 | 19750801 | | |
| ZA 7108104 | A | 19720927 | ZA 1971-8104 | 19711203 |
| AU 7136493 | A | 19730607 | AU 1971-36493 | 19711203 |
| HU 163670 | B | 19731027 | HU 1971-B0134 | 19711203 |
| AT 314094 | B | 19740325 | AT 1971-10436 | 19711203 |
| CA 960655 | A1 | 19750107 | CA 1971-129319 | 19711203 |
| AT 323335 | B | 19750710 | AT 1971-323335 | 19711203 |

PRAI DE 1970-2059922 A 19701205
 GI For diagram(s), see printed CA Issue.
 AB Forty-five title compds. (I, Y = X, 2-R(R1)C6H39CH2)nNH; n = 1,2; R = 3- or 4-carboxy, -alkoxycarbonyl, -carbamoyl, -allylcarbamoyl; R1 = H, Me; R2 = H, Cl, OH (II), useful as hypolipemic agents with effects on circulation, were prepared by reaction of the corresponding I (Y = Cl) (III) with X,2-R(R1)C6H3(CH2)nNH2 and subsequent saponification or amidation. Thus, refluxing III (R2 = H) and 3-EtO2C-C6H4CH2CH2NH2.HCl in EtOH in the presence of Et3N for 3 hr gave 65% II (n = 2, R = 3-EtO2C, R1 = R2 = H), which was heated in EtOH at 120° for 15 hr with NH3 to give 64% II (n = 2, R = 3-H2NCO, R1 = R2 = 5h).

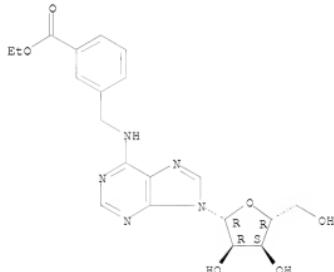
IT 38823-49-3P 38823-50-6P 38823-51-7P
 38823-52-8P 38823-53-9P 38823-64-0P
 38823-55-1P 38823-56-2P 38823-59-5P
 38823-60-8P 38823-62-0P 38823-64-2P
 38823-65-3P 38823-66-4P 38823-67-5P

38823-68-6P 38823-69-7P 38823-72-2P
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 38823-77-7P 38823-78-8P 38823-79-9P
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RL: SPN (Synthetic preparation); PREP (Preparation)
 (preparation of)

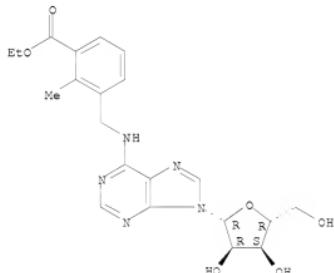
RN 38823-49-3 CAPLUS
 CN Benzoic acid, 3-[(9- β -D-ribofuranosyl-9H-purin-6-yl)amino]methyl-,
 ethyl ester (CA INDEX NAME)

Absolute stereochemistry.



RN 38823-50-6 CAPLUS
 CN Benzoic acid, 2-methyl-3-[(9- β -D-ribofuranosyl-9H-purin-6-yl)amino]methyl-, ethyl ester (CA INDEX NAME)

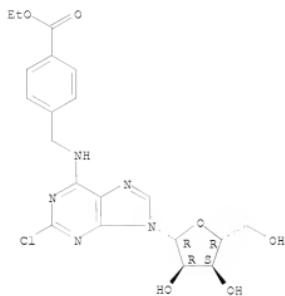
Absolute stereochemistry.



RN 38823-51-7 CAPLUS
 CN Benzoic acid, 4-[[[2-chloro-9- β -D-ribofuranosyl-9H-purin-6-yl)amino]methyl]-, ethyl ester (CA INDEX NAME)

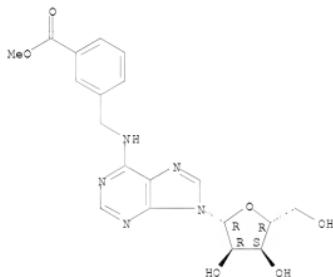
Absolute stereochemistry.

10/540,993



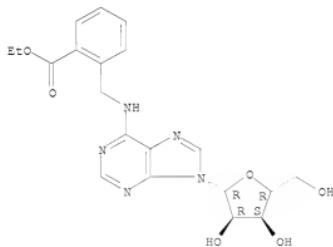
RN 38823-52-8 CAPLUS
CN Benzoic acid, 3-[(9- β -D-ribofuranosyl-9H-purin-6-yl)amino]methyl-,
methyl ester (CA INDEX NAME)

Absolute stereochemistry.



RN 38823-53-9 CAPLUS
CN Benzoic acid, 2-[(9- β -D-ribofuranosyl-9H-purin-6-yl)amino]methyl-,
ethyl ester (CA INDEX NAME)

Absolute stereochemistry.

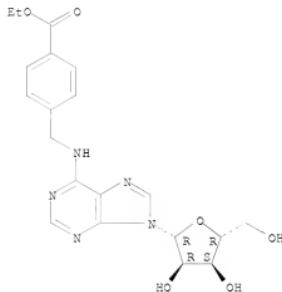


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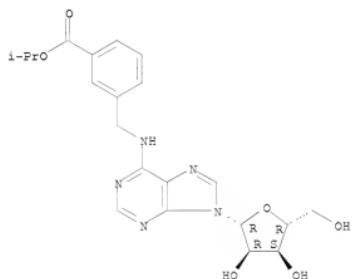
RN 38823-54-0 CAPLUS
CN Benzoic acid, 4-[[[(9- β -D-ribofuranosyl-9H-purin-6-yl)amino]methyl]-, ethyl ester (CA INDEX NAME)

Absolute stereochemistry.



RN 38823-55-1 CAPLUS
CN Benzoic acid, 3-[[[(9- β -D-ribofuranosyl-9H-purin-6-yl)amino]methyl]-, 1-methylethyl ester (CA INDEX NAME)

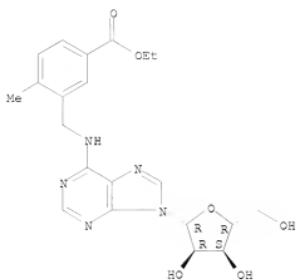
Absolute stereochemistry.



RN 38823-56-2 CAPLUS
CN Benzoic acid, 4-methyl-3-[[[(9- β -D-ribofuranosyl-9H-purin-6-yl)amino]methyl]-, ethyl ester (CA INDEX NAME)

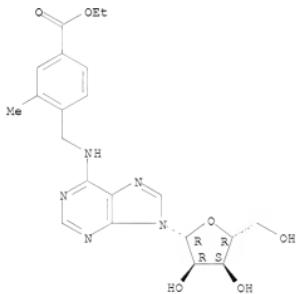
Absolute stereochemistry.

10/540, 993



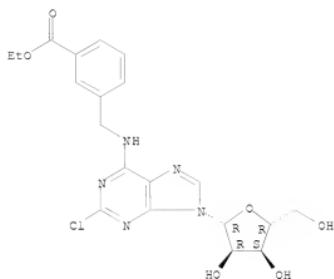
RN 38823-59-3 CAPLUS
CN Benzoic acid, 3-methyl-4-[[[(9- β -D-ribofuranosyl-9H-purin-6-yl)amino]methyl]-, ethyl ester (CA INDEX NAME)

Absolute stereochemistry.



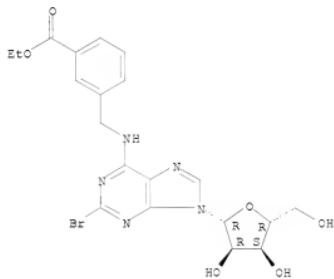
RN 38823-60-8 CAPLUS
CN Benzoic acid, 3-[[[2-chloro-9- β -D-ribofuranosyl-9H-purin-6-yl)amino]methyl]-, ethyl ester (CA INDEX NAME)

Absolute stereochemistry.



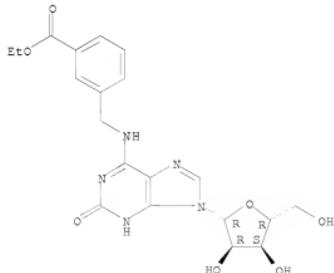
RN 38823-62-0 CAPLUS
 CN Benzoic acid, 3-[(2-bromo-9- β -D-ribofuranosyl-9H-purin-6-yl)amino]methyl-, ethyl ester (CA INDEX NAME)

Absolute stereocchemistry.



RN 38823-64-2 CAPLUS
 CN Benzoic acid, 3-[(2-hydroxy-9- β -D-ribofuranosyl-9H-purin-6-yl)amino]methyl-, ethyl ester (9CI) (CA INDEX NAME)

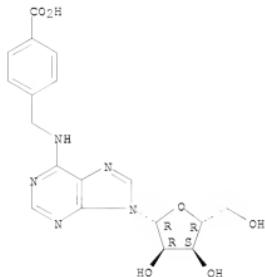
Absolute stereocchemistry.



10/540,993

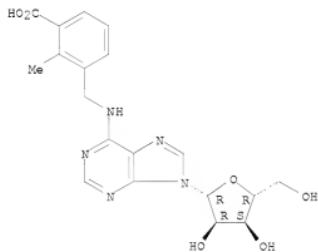
RN 38823-65-3 CAPLUS
CN Benzoic acid, 4-[[[(9- β -D-ribofuranosyl-9H-purin-6-yl)amino]methyl]-
(CA INDEX NAME)

Absolute stereocchemistry.



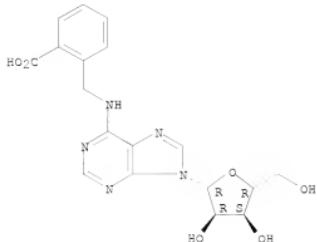
RN 38823-66-4 CAPLUS
CN Benzoic acid, 2-methyl-3-[[[(9- β -D-ribofuranosyl-9H-purin-6-yl)amino]methyl]-
(CA INDEX NAME)

Absolute stereocchemistry.



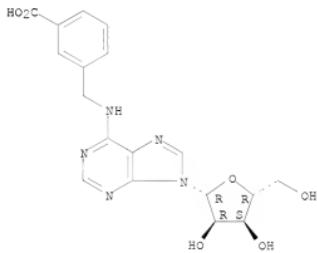
RN 38823-67-5 CAPLUS
CN Benzoic acid, 2-[[[(9- β -D-ribofuranosyl-9H-purin-6-yl)amino]methyl]-
(CA INDEX NAME)

Absolute stereocchemistry.



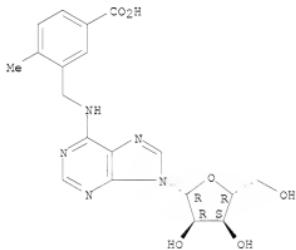
RN 38823-68-6 CAPIUS
 CN Benzoic acid, 3-[(9- β -D-ribofuranosyl-9H-purin-6-yl)amino]methyl-
 (CA INDEX NAME)

Absolute stereochemistry.



RN 38823-69-7 CAPIUS
 CN Benzoic acid, 4-methyl-3-[(9- β -D-ribofuranosyl-9H-purin-6-yl)amino]methyl- (CA INDEX NAME)

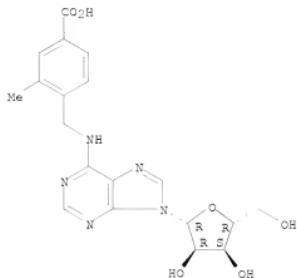
Absolute stereochemistry.



RN 38823-72-2 CAPIUS
 CN Benzoic acid, 3-methyl-4-[(9- β -D-ribofuranosyl-9H-purin-6-yl)amino]methyl- (CA INDEX NAME)

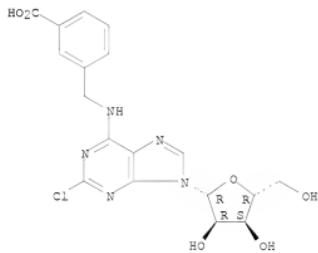
10/540,993

Absolute stereochemistry.



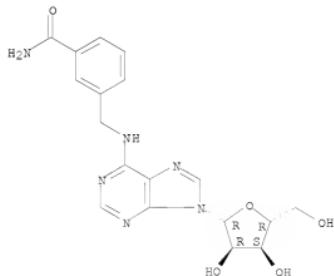
RN 38823-73-3 CAPLUS
CN Benzoic acid, 3-[(2-chloro-9-β-D-ribofuransyl-9H-purin-6-yl)amino)methyl]- (CA INDEX NAME)

Absolute stereochemistry.



RN 38823-74-4 CAPLUS
CN Adenosine, N-[(3-(aminocarbonyl)phenyl)methyl]- (9CI) (CA INDEX NAME)

Absolute stereochemistry.

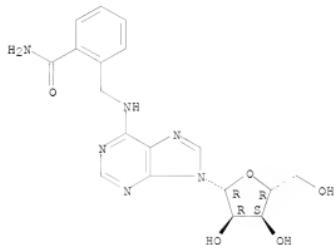


McIntosh

10/540,993

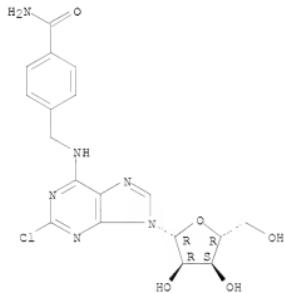
RN 38823-76-6 CAPLUS
CN Adenosine, N-[(2-(aminocarbonyl)phenyl)methyl]- (9CI) (CA INDEX NAME)

Absolute stereochemistry.



RN 38823-77-7 CAPLUS
CN Adenosine, N-[(4-(aminocarbonyl)phenyl)methyl]-2-chloro- (9CI) (CA INDEX NAME)

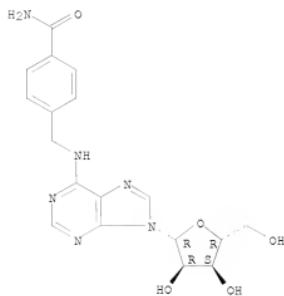
Absolute stereochemistry.



RN 38823-78-8 CAPLUS
CN Adenosine, N-[(4-(aminocarbonyl)phenyl)methyl]- (9CI) (CA INDEX NAME)

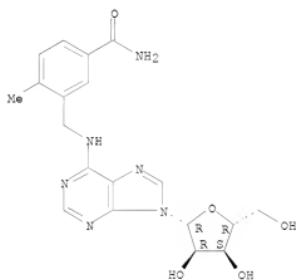
Absolute stereochemistry.

10/540, 993



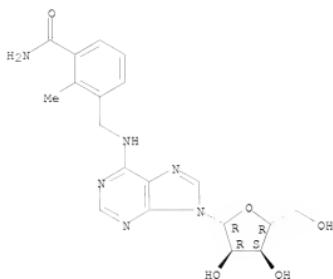
RN 38823-79-9 CAPLUS
CN Adenosine, N-[(5-(aminocarbonyl)-2-methylphenyl)methyl]- (9CI) (CA INDEX
NAME)

Absolute stereochemistry.



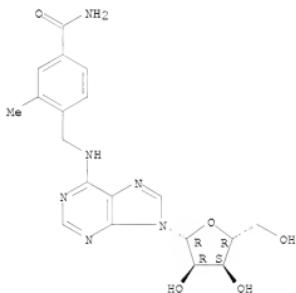
RN 38823-81-3 CAPLUS
CN Adenosine, N-[(3-(aminocarbonyl)-2-methylphenyl)methyl]- (9CI) (CA INDEX
NAME)

Absolute stereochemistry.



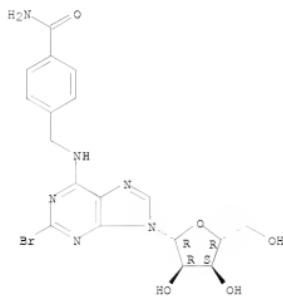
RN 38823-82-4 CAPLUS
 CN Adenosine, N-[(4-(aminocarbonyl)-2-methylphenyl)methyl]- (9CI) (CA INDEX
 NAME)

Absolute stereocchemistry.



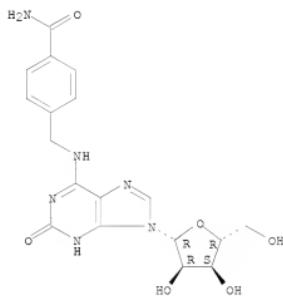
RN 38823-84-6 CAPLUS
 CN Adenosine, N-[(4-(aminocarbonyl)phenyl)methyl]-2-bromo- (9CI) (CA INDEX
 NAME)

Absolute stereocchemistry.



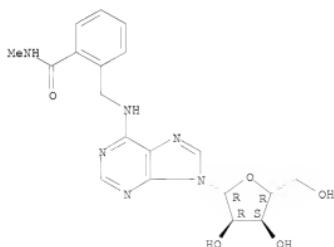
RN 38823-85-7 CAPLUS
 CN Adenosine, N-[(4-(aminocarbonyl)phenyl)methyl]-1,2-dihydro-2-oxo- (9CI)
 (CA INDEX NAME)

Absolute stereochemistry.



RN 38823-86-8 CAPLUS
 CN Adenosine, N-[(2-[(methylamino)carbonyl]phenyl)methyl]- (9CI) (CA INDEX NAME)

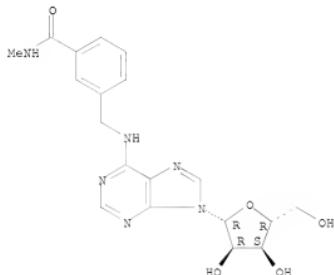
Absolute stereochemistry.



10/540,993

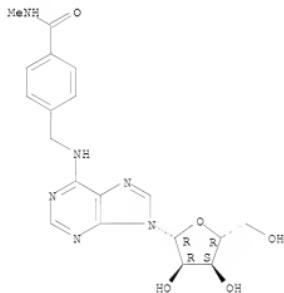
RN 38823-88-0 CAPLUS
CN Adenosine, N-[(3-[(methylamino)carbonyl]phenyl)methyl]- (9CI) (CA INDEX
NAME)

Absolute stereocchemistry.



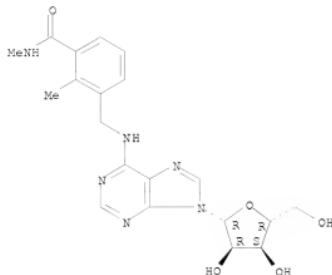
RN 38823-89-1 CAPLUS
CN Adenosine, N-[(4-[(methylamino)carbonyl]phenyl)methyl]- (9CI) (CA INDEX
NAME)

Absolute stereocchemistry.



RN 38823-90-4 CAPLUS
CN Adenosine, N-[(2-methyl-3-[(methylamino)carbonyl]phenyl)methyl]- (9CI)
(CA INDEX NAME)

Absolute stereocchemistry.



15 ANSWER 224 OF 233 CAPLUS COPYRIGHT 2008 ACS on STN
 AN 19721483708 CAPLUS

DN 77:63708

OREF 77:13769a,13772a

TI Clinical-pharmacological studies with a new orally active adenosine derivative

AU Schumann, E.; Kutsch, M.

CS I. Med. Klin. Mannheim, Univ. Heidelberg, Mannheim, Fed. Rep. Ger.

SO Arzneimittel-Forschung (1972), 22(4), 783-90

CODEN: ARZNAD; ISSN: 0004-4172

DT Journal

LA German

AB Metrifidil [N6-(o-methylbenzyl)adenosine] (I) [23707-33-7] was tested in humans. Administration of 0.03 mg/kg i.v. and of 0.35 mg/kg orally increased the heart rate and cardiac output. Neither impairment of atrioventricular conduction nor other alterations of the electrocardiogram was observed. Uneasiness and other side effects were caused by i.v. and oral administration of 0.1 and 0.47-0.53 mg I/kg, resp. The limit of tolerability was reached earlier if the speed of i.v. infusion exceeded 16 µg/kg/min. No critical changes in circulatory parameters were found. I.v. injection of I caused no inflammation or alteration of the veins. The concentration of serum fatty acids was lowered only by i.v. administration of I. A 50% absorption of I was estimated by comparing the increase of the heart rate after i.v. and oral administration.

IT 23707-33-7

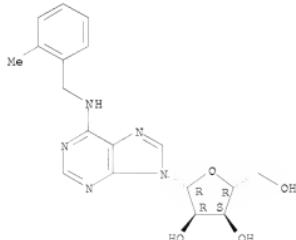
RL: BAC (Biological activity or effector, except adverse); BSU (Biological study, unclassified); THU (Therapeutic use); BIOL (Biological study); USES (Uses)

(pharmacol. of)

RN 23707-33-7 CAPLUS

CN Adenosine, N-[(2-methylphenyl)methyl]- (CA INDEX NAME)

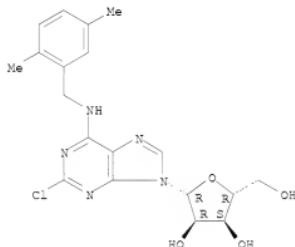
Absolute stereocchemistry.



L5 ANSWER 225 OF 233 CAPLUS COPYRIGHT 2008 ACS on STN
 AN 1972475423 CAPLUS
 DN 77:75423
 OREF 77:12459a,12462a
 TI N-(2,5-Dimethylbenzyl)-2-chloroadenosine
 IN Kampe, Wolfgang; Fauland, Erich; Thiel, Max; Stork, Harald; Dietmann, Karl
 PA Boehringer Mannheim G.m.b.H.
 SO Ger. Offen., 3 pp.
 CODEN: GWXXBX
 DT Patent
 LA German
 FAN.CNT 1

| | PATENT NO. | KIND | DATE | APPLICATION NO. | DATE |
|------|---|------|----------|-----------------|----------|
| PI | DE 2055160 | A | 19720518 | DE 1970-2055160 | 19701110 |
| | NL 7115189 | A | 19720515 | NL 1971-15189 | 19711104 |
| | ZA 7107391 | A | 19720830 | ZA 1971-7391 | 19711104 |
| | GB 1215733 | A | 19730502 | GB 1971-51344 | 19711104 |
| | HU 164380 | B | 19740228 | HU 1971-B01330 | 19711104 |
| | ES 396653 | AI | 19740601 | ES 1971-396653 | 19711104 |
| | SE 380026 | B | 19751027 | SE 1971-14090 | 19711104 |
| | CH 551424 | A | 19740715 | CH 1971-46159 | 19711103 |
| | CA 933715 | AI | 19740827 | CA 1971-127184 | 19711108 |
| | AT 303916 | B | 19721227 | AT 1971-9668 | 19711109 |
| | SU 413678 | A3 | 19740130 | SU 1971-1715932 | 19711109 |
| | FR 2113869 | A5 | 19720630 | FR 1971-40243 | 19711110 |
| | FR 2113869 | BI | 19750606 | | |
| PRAI | DE 1970-2055160 | A | 19701110 | | |
| GI | For diagram(s), see printed CA Issue. | | | | |
| AB | The title compound (I), useful in the treatment of atherosclerotic diseases, was prepared in 77.6% yield by refluxing the protected dichloro derivative (II) with 2,5-Me ₂ C ₆ H ₃ CH ₂ NH ₂ in the presence of Et ₃ N and subsequent cleavage of the protecting Ac group with NH ₃ -saturated MeOH. | | | | |
| IT | 38583-68-9P
RU: SPV (Synthetic preparation); PREP (Preparation)
(preparation of) | | | | |
| RN | 38583-68-9 CAPLUS | | | | |
| CN | Adenosine, 2-chloro-N-[(2,5-dimethylphenyl)methyl]- (9CI) (CA INDEX NAME) | | | | |

Absolute stereocchemistry.



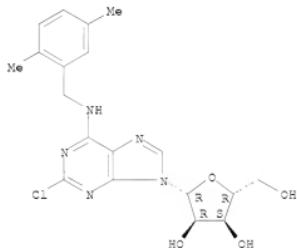
L5 ANSWER 226 OF 233 CAPLUS COPYRIGHT 2008 ACS on STN
 AN 1972456780 CAPLUS
 DN 77:56780
 OREF 77:9361a,9364a
 TI Antilipolytic and antihyperlipemic N-substituted adenosine derivatives
 IN Stork, Harald; Schmidt, Felix Helmut; Thiel, Max; Fauland, Erich; Kampe, Wolfgang
 PA Boehringer Mannheim G.m.b.H.
 SO Ger. Offen., 10 pp.
 CODEN: GWXXBX
 DT Patent

LA German

FAN,CNT 1

| PATENT NO. | KIND | DATE | APPLICATION NO. | DATE |
|--|--------|----------|-----------------|----------|
| PI DE 2052596 | A | 19720504 | DE 1970-2052596 | 19701027 |
| US 3851056 | A | 19741126 | US 1971-189409 | 19711014 |
| IL 37975 | A | 19750313 | IL 1971-37975 | 19711020 |
| GB 1325970 | A | 19730808 | GB 1971-48998 | 19711021 |
| ZA 7107083 | A | 19720830 | ZA 1971-7083 | 19711022 |
| BE 774399 | A1 | 19720425 | BE 1971-109690 | 19711025 |
| AU 7134971 | A | 19730503 | AU 1971-34971 | 19711025 |
| CA 983395 | A1 | 19760210 | CA 1971-126166 | 19711026 |
| FR 2111862 | R5 | 19720609 | FR 1971-38539 | 19711027 |
| FR 2111862 | B1 | 19750801 | | |
| PRAT DE 1970-2052596 | R | 19701027 | | |
| AB Forty-four title compds. [I; R = e.g. H or Cl; R1 = e.g. sec-Bu,
EtCH(Me)CHMe, PrCH(Me), o-MeC6H4CH2CH2, m-MeC6H4CH2CHMe, o-MeC6H4CH(OH)CH2,
PhOCH2CHMe, cyclopentyl, o-CF3C6H4, 2,5-Me2C6H3CH2, m-HO2C6H4] decreased
the concentration of free fatty acids in rat serum by 40-83% when given at
0.125-0.5 mg/kg. Thus, N6-sec-butyladenosine [35440-64-3] lowered serum
free fatty acid concentration by 54% within 1 hr after i.p. administration of 0.5
mg/kg. | | | | |
| IT 38583-68-9 | | | | |
| RL: BIOL (Biological study)
(for hyperlipidemia treatment) | | | | |
| RN 38583-68-9 | CAPLUS | | | |
| CN Adenosine, 2-chloro-N-[(2,5-dimethylphenyl)methyl]- (9CI) (CA INDEX NAME) | | | | |

Absolute stereochemistry.



L5 ANSWER 227 OF 233 CAPLUS COPYRIGHT 2008 ACS on STN
 AN 1972154069 CAPLUS
 DN 76154069

OREF 76:25121a,25124a

TI Novel synthesis of N6-substituted adenosines and their coronary dilator activities

AU Shimizu, Bunji; Kaneko, Masakatsu; Saito, Akio; Nishino, Hiroshi; Mizuno, Hiroshi; Nakayama, Koichi; Ohshima, Takeshi; Koike, Hiroyuki

CS Sankyo Res. Lab., Tokyo, Japan

SO Sankyo Kenkyusho Nenpo (1971), 23, 117-23

CODEN: SKKNAJ; ISSN: 0080-6064

DT Journal

LA Japanese

AB N6-Substituted adenosine derivs. (PhCH2, PhCH2CH2, naphthylmethyl, Me2CHCH2, o-MeC6H4-CH2, m-MeC6H4CH2, p-MeC6H4CH2, furfurylmethyl) in addition to N6-benzyl-9-(D-ribosylfuranosyl)adenine, and N6-benzyl-9-(D-glucopyranosyl)adenine were synthesized directly from adenosine by exchange amination reactions of the corresponding purine or pyrimidine bases. The mechanism of formation of these nucleosides and their coronary-dilating activities were described.

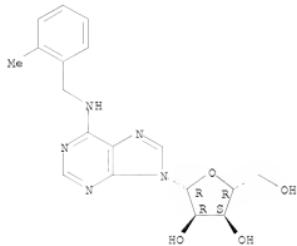
IT 23707-33-7P 35940-03-5P 35940-04-6P

RL: SPN (Synthetic preparation); PREP (Preparation)
(preparation of, as blood vessel dilators)

10/540,993

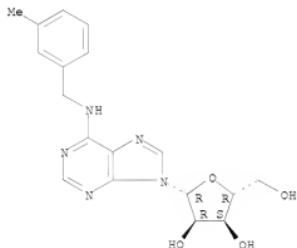
RN 23707-33-7 CAPLUS
CN Adenosine, N-[(2-methylphenyl)methyl]- (CA INDEX NAME)

Absolute stereochemistry.



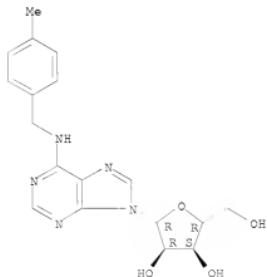
RN 35940-03-5 CAPLUS
CN Adenosine, N-[(3-methylphenyl)methyl]- (CA INDEX NAME)

Absolute stereochemistry.



RN 35940-04-6 CAPLUS
CN Adenosine, N-[(4-methylphenyl)methyl]- (CA INDEX NAME)

Absolute stereochemistry.



McIntosh

L5 ANSWER 228 OF 233 CAPLUS COPYRIGHT 2008 ACS on STN
 AN 1971541121 CAPLUS
 DN 75:141121
 OREF 75:22273a,22276a
 TI Coronary dilating N6-benzyladenosines
 IN Kampe, Wolfgang; Fauland, Erich; Thiel, Max; Dietmann, Karl; Juhran,
 Wolfgang
 PA Boehringer Mannheim G.m.b.H.
 SO Ger. Offen., 10 pp.
 CODEN: GWXKBM
 DT Patent
 LA German
 FAN.CNT 1

| | PATENT NO. | KIND | DATE | APPLICATION NO. | DATE |
|------|-----------------|------|----------|-----------------|----------|
| PI | DE 2007273 | A | 19710826 | DE 1970-2007273 | 19700218 |
| | SU 399134 | A3 | 19730927 | SU 1971-1616102 | 19710129 |
| | US 3781273 | A | 19731225 | US 1971-112424 | 19710203 |
| | ES 388194 | A1 | 19730501 | ES 1971-388194 | 19710212 |
| | NL 7102026 | A | 19710820 | NL 1971-2026 | 19710216 |
| | DK 132397 | B | 19720612 | DK 1971-694 | 19710216 |
| | HU 162739 | B | 19730428 | HU 1971-B01274 | 19710216 |
| | CH 549596 | A | 19740531 | CH 1971-2208 | 19710216 |
| | CH 549600 | A | 19740531 | CH 1974-2849 | 19710216 |
| | CA 953714 | A1 | 19740827 | CA 1971-105563 | 19710216 |
| | ZA 7101030 | A | 19711124 | ZA 1971-1030 | 19710217 |
| | FR 2081524 | A5 | 19711203 | FR 1971-5318 | 19710217 |
| | FR 2081524 | B1 | 19740927 | | |
| | AT 306251 | B | 19730410 | AT 1971-1378 | 19710217 |
| | AT 313483 | B | 19740225 | AT 1972-1233 | 19710217 |
| | JP 51016440 | B | 19760524 | JP 1971-7691 | 19710218 |
| | GB 1279946 | A | 19720628 | GB 1971-1279946 | 19710419 |
| PRAI | DE 1970-2007273 | A | 19700218 | | |

GI For diagram(s), see printed CA Issue.
 AB The title compds. (I, Where R = Me, MeS, or MeO, R1 = 5-Me, 5-Cl, 5-MeO, 5-iso-Pr, 5-F, 5-tert-Bu, 3-Me, or 3-Cl) were prepared either by amination of the 6-chloro derivative or by N1-substitution of adenosine followed by alkaline rearrangement. Thus, 9-(2,3,5-tri-O-acetyl-β-D-ribofuranosyl)-6-chloropurine, 2,5-Me2C6H3CH2NH2, and Et3N in iso-PrOH was refluxed 3 hr and the protective Ac groups cleaved by NaOMe to give 61% I (R = Me, R1 = 5-Me). Similarly prepared were 11 other I.

IT 34349-31-0P 34349-32-1P 34349-33-2P

34349-34-3P 34349-35-4P 34349-36-5P

34349-37-6P 34349-38-7P 34349-39-8P

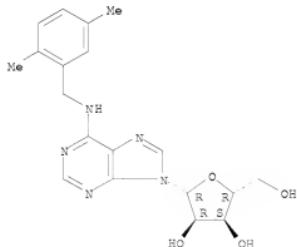
34349-40-1P 34349-41-2P 34422-72-5P

RL: SPN (Synthetic preparation); PREP (Preparation)
 (preparation of)

RN 34349-31-0 CAPLUS

CN Adenosine-9-[(2,5-dimethylphenyl)methyl]- (9CI) (CA INDEX NAME)

Absolute stereochemistry.

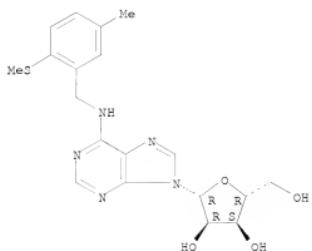


RN 34349-32-1 CAPLUS

19/540,293

CN Adenosine, N-[5-methyl-2-(methylthio)benzyl]- (SCI) (CA INDEX NAME)

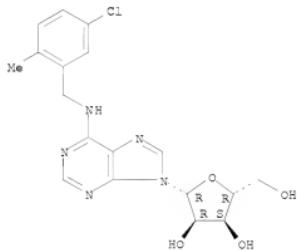
Absolute stereochemistry.



RN 34349-33-2 CAPLUS

CN Adenosine, N-(5-chloro-2-methylbenzyl)- (8CI) (CA INDEX NAME)

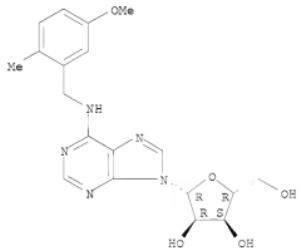
Absolute stereochemistry.



RN 34349-34-3 CAPLUS

CN Adenosine, N-(5-methoxy-2-methylbenzyl)- (8CI) (CA INDEX NAME)

Absolute stereochemistry.

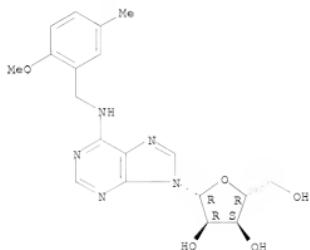


RN 34349-35-4 CAPLUS

CN Adenosine, N-(2-methoxy-5-methylbenzyl)- (SCI) (CA INDEX NAME)

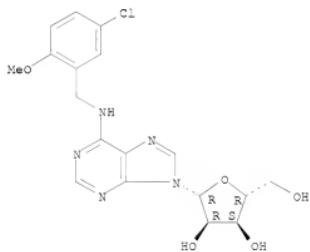
10/540, 993

Absolute stereochemistry.



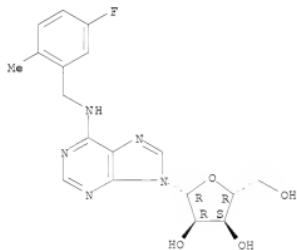
RN 34349-36-5 CAPLUS
CN Adenosine, N-[(5-chloro-2-methoxyphenyl)methyl]- (9CI) (CA INDEX NAME)

Absolute stereochemistry.



RN 34349-37-6 CAPLUS
CN Adenosine, N-[(5-fluoro-2-methylphenyl)methyl]- (9CI) (CA INDEX NAME)

Absolute stereochemistry.

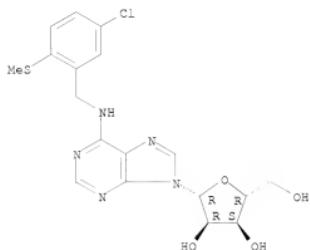


RN 34349-38-7 CAPLUS
CN Adenosine, N-[(5-chloro-2-(methylthio)phenyl)methyl]- (9CI) (CA INDEX NAME)

McIntosh

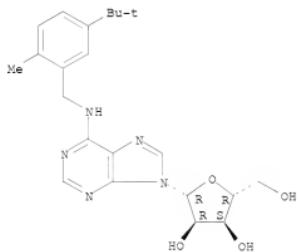
10/540, 993

Absolute stereochemistry.



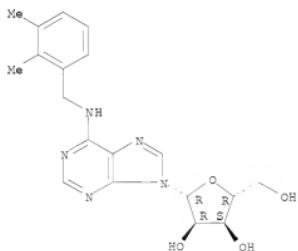
RN 34349-39-8 CAPLUS
CN Adenosine, N-(5-tert-butyl-2-methylbenzyl)- (8CI) (CA INDEX NAME)

Absolute stereochemistry.



RN 34349-40-1 CAPLUS
CN Adenosine, N-[(2,3-dimethylphenyl)methyl]- (9CI) (CA INDEX NAME)

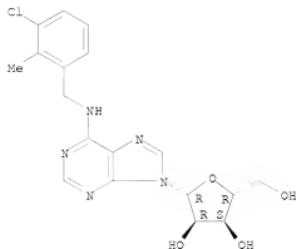
Absolute stereochemistry.



RN 34349-41-2 CAPLUS
CN Adenosine, N-[(3-chloro-2-methylphenyl)methyl]- (9CI) (CA INDEX NAME)

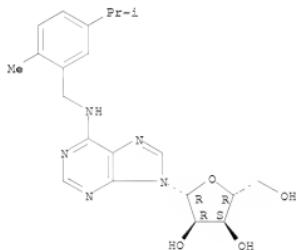
McIntosh

Absolute stereochemistry.



RN 34422-72-3 CAPLUS
 CN Adenosine, N-(5-isopropyl-2-methylbenzyl)- (8CI) (CA INDEX NAME)

Absolute stereochemistry.



L5 ANSWER 229 OF 233 CAPLUS COPYRIGHT 2008 ACS on STN
 AN 19711433660 CAPLUS
 DN 75:333660

OREF 75:5316n,5317a

TI Pharmacological effects on coronary reactive hyperemia in conscious dogs
 AU Juhran, W.; Voss, E. M.; Dietmann, K.; Schumann, W.CS Pharmakol. Lab., Boehringer Mannheim G.m.b.H., Mannheim, Fed. Rep. Ger.
 SO Naunyn-Schmiedebergs Archiv fuer Pharmakologie (1971), 269(1), 32-47

CODEN: NNAPBA; ISSN: 0340-5249

DT Journal

LA English

GI For diagram(s), see printed CA Issue.

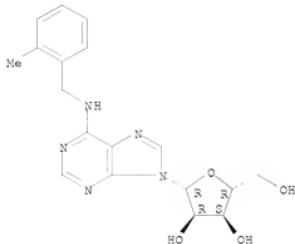
AB In conscious dogs, threshold doses of dipyridamole (I) and lidoflazazine (II), which potentiate the dilation of coronary vessels by adenosine, increased reactive hyperemia in response to arterial occlusion lasting >30 sec, whereas threshold doses of coronary dilators, such as N6-(o-methylbenzyl)adenosine (III) and carbochromen (IV), which do not potentiate adenosine, did enhance reactive hyperemia for any duration of occlusion. Theophylline decreased the duration of reactive hyperemia, but not the excess flow. Procaine-HCl infused into the coronary artery caused a dose-dependent reduction of the reactive hyperemia. Apparently, appreciable amounts of adenosine were liberated only during complete anoxia for >30 sec. Under physiol. conditions coronary resistance was probably regulated by a nervous mechanism and not by adenosine liberation.

IT 23707-33-7

RL: BIOL (Biological study)
 (hyperemia response to)

RN 23707-33-7 CAPLUS
 CN Adenosine, N-[(2-methylphenyl)methyl]- (CA INDEX NAME)

Absolute stereochemistry.



L5 ANSWER 230 OF 233 CAPLUS COPYRIGHT 2008 ACS on STN
 AN 1971:86054 CAPLUS
 DN 74:86054

OREF 74:13963a,13966a
 TI Inhibition of induced thrombocyte aggregation by adenosine and adenosine derivatives. II. Correlation between inhibition of the aggregation and peripheral vasodilation

AU Dietmann, Karl; Birkenheier, H.; Schaumann, Wolfgang
 CS Med. Forsch., Firma Boehringer Mannheim G.m.b.H., Mannheim-Waldhof, Fed.
 Rep. Ger.

SO Arzneimittel-Forschung (1970), 20(11), 1749-51
 CODEN: ARINAD; ISSN: 0004-4172

DT Journal

LA German

GI For diagram(s), see printed CA Issue.

AB The ability of adenosine (I) and 20 adenosine derivs. to produce vasodilation in rabbits was correlated with their ability to antagonize ADP-induced thrombocyte aggregation *in vitro*. The N6-phenylalkyl substituted derivs., N6-(*cis*, trans-2-phenylcyclo-pentyl)adenosine and N6-(trans-di-2-phenylcyclopentyl)adenosine (II), were more active than the aliphatic substituted derivs., 2-chloro-N6-propyl-, 2-chloro-N6-allyl-, and 2-chloro-N6-sec-butyladenosines, as well as the N6-benzyl derivs., 2-chloro-N6-benzyladenosine, 2-amino-N6-(2-chlorobenzyl)adenosine, N6-(*o*-xylyl)adenosine, N6-(*o*-trifluoromethylbenzyl)adenosine, and N6-(3,5-dimethoxybenzyl)adenosine. The most active derivative, II, was half as active as adenosine.

IT 23660-99-3 23661-01-0 23707-33-7

26783-35-7

RL: BIOL (Biological study)

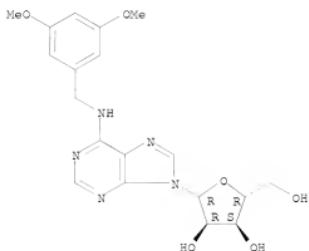
(blood platelet aggregation and vasodilation by)

RN 23660-99-3 CAPLUS

CN Adenosine, N-[(3,5-dimethoxyphenyl)methyl]- (CA INDEX NAME)

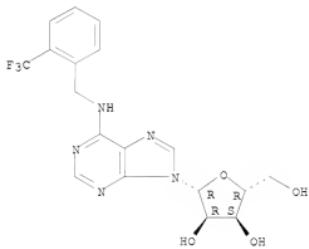
Absolute stereochemistry.

10/540, 993



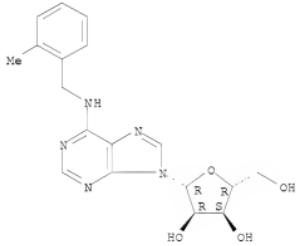
RN 23661-01-0 CAPLUS
CN Adenosine, N-[(2-(trifluoromethyl)phenyl)methyl]- (CA INDEX NAME)

Absolute stereocchemistry.



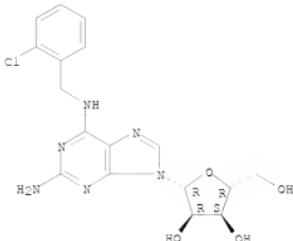
RN 23707-33-7 CAPLUS
CN Adenosine, N-[(2-methylphenyl)methyl]- (CA INDEX NAME)

Absolute stereocchemistry.



RN 26783-35-7 CAPLUS
CN Adenosine, 2-amino-N-[(2-chlorophenyl)methyl]- (9CI) (CA INDEX NAME)

Absolute stereocchemistry.



L5 ANSWER 231 OF 233 CAPLUS COPYRIGHT 2008 ACS on STN
 AN 1970:21921 CAPLUS
 DN 72:21921

OREF 72:4037a,4040a
 II 2-Aminoadenosine derivatives with cardiac activity

IN Koch, Klaus; Fauland, Erich; Stach, Kurt; Thiel, Max; Schaumann, Wolfgang;
 Dietmann, Karl
 PA Boehringer, C. F., und Soehne G.m.b.H.
 SO S. Africam, 25 pp.

CODEN: SFXXAB
 DT Patent
 LA English

FAN.CNT 1

| PATENT NO. | KIND | DATE | APPLICATION NO. | DATE |
|---------------|-------|----------|-----------------|----------|
| PI ZA 6805477 | ----- | 19690128 | ----- | ----- |
| DE 1670265 | DE | | | |
| FR 1587681 | FR | | | |
| GB 1164580 | GB | | | |
| US 3590029 | | 19710629 | US | 19680822 |

PRAI DE 19670825

GI For diagram(s), see printed CA Issue.

AB The title compds. [I, R = NHAr (II), R1 = PhCH2, (Ph)MeCHC H2, Pr,
 o-C10H4CH2, iso-Bu, o-MeC6H4CH2, o-F3C6H4, furf uryl,
 3,4-(MeO)2C6H3CH2CH2, PhCH(OH)CHMe, PhCH(CO2H), allyl, cyclohexyl,
 2-hydroxy-3-(m-cresoxy)propyl, 2-phenylcyclopropyl, 1-adamantyl,
 2-(β-indolyl)ethyl, 2-indanyl, Bu, benzhydryl, 2,4-C12C6H3CH2,
 p-HOC6H4CH2CH2, o-PhOC6H4CH2, o-MeOC6H4CH2, PhCR2CH2, 3,5-(MeO)2C6H3CH2,
 p-C10H4CH2, 2-ethylhexyl, m-FC6H4CH2, HOCH2CH2, PhCHMe,
 2-phenylcyclohexyl, PhOCH2CHMe, 2-hydroxy-3-(o-naphthoxy)propyl,
 MeZ1CHCH2, p-O2NCH4-CHOCH2, p-MeSO2NH6H4CH2 or EtCHCH2OH] are prepared
 from I (R = Br) (III) and appropriate amines. II has cardiac and
 circulatory activities. For example, a mixture of 5 g III, 1.71 g PhCH2NH2
 and 2.92 g Et3N in 50 ml Me2COH was refluxed 3 hr to give 29% II (R1 =
 PhCH2), m. 92° (decomposition). 2',3',5'-Tri-O-acetyl-2-amino-6-
 chloronucleolarin was also used in place of III, and the resulting
 substitution product was hydrolyzed to give II.

IT 26775-33-7P 26775-34-8P 26775-36-0P
 26775-37-1P 26775-38-2P 26783-35-7P
 26783-37-9P 26783-38-0P 26783-46-0P
 26884-43-5P

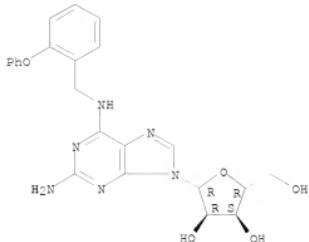
RI: SP (Synthetic preparation); PREP (Preparation)
 (preparation of)

RN 26775-33-7 CAPLUS

CN 9H-Purine, 2-amino-6-[(o-phenoxybenzyl)amino]-9-β-D-ribofuranosyl-
 (8CI) (CA INDEX NAME)

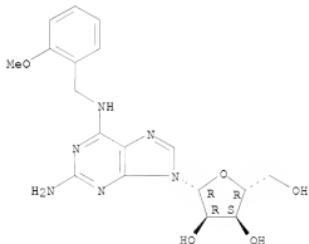
Absolute stereochemistry.

10/540,993



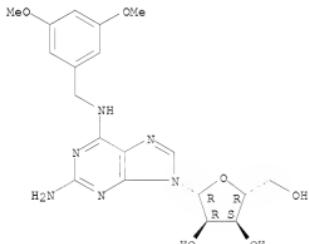
RN 26775-34-8 CAPLUS
CN Adenosine, 2-amino-N-[(2-methoxyphenyl)methyl]- (9CI) (CA INDEX NAME)

Absolute stereochemistry.



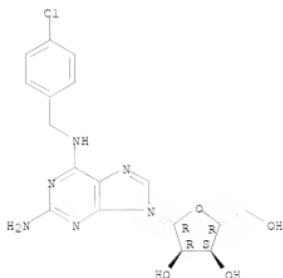
RN 26775-36-0 CAPLUS
CN Adenosine, 2-amino-N-[(3,5-dimethoxyphenyl)methyl]- (9CI) (CA INDEX NAME)

Absolute stereochemistry.



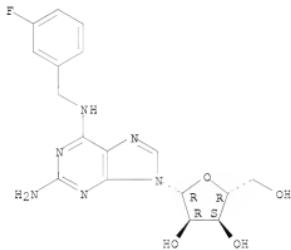
RN 26775-37-1 CAPLUS
CN Adenosine, 2-amino-N-[(4-chlorophenyl)methyl]- (9CI) (CA INDEX NAME)

Absolute stereochemistry.



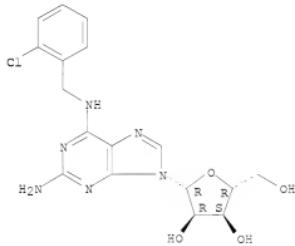
RN 26775-38-2 CAPLUS
 CN Adenosine, 2-amino-N-[3-(3-fluorophenyl)methyl]- (9CI) (CA INDEX NAME)

Absolute stereochemistry.



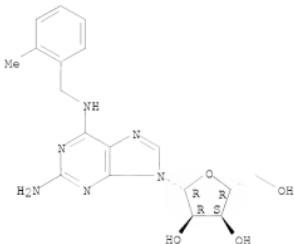
RN 26783-35-7 CAPLUS
 CN Adenosine, 2-amino-N-[2-chlorophenylmethyl]- (9CI) (CA INDEX NAME)

Absolute stereochemistry.



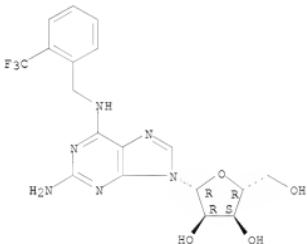
RN 26783-37-9 CAPLUS
 CN Adenosine, 2-amino-N-[2-methylphenylmethyl]- (9CI) (CA INDEX NAME)

Absolute stereochemistry.



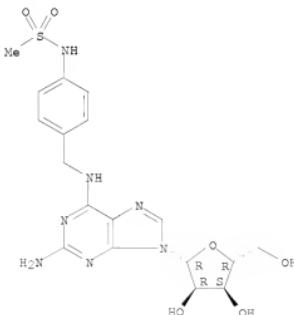
RN 26783-38-0 CAPLUS
CN Adenosine, 2-amino-N-[2-(trifluoromethyl)phenyl]methyl- (9CI) (CA INDEX NAME)

Absolute stereochemistry.



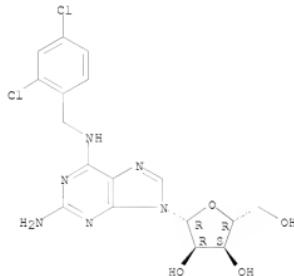
RN 26783-46-0 CAPLUS
CN Methanesulfono-p-toluidide, α -[(2-amino-9- β -D-ribofuranosyl-9H-purin-6-yl)amino]- (8CI) (CA INDEX NAME)

Absolute stereochemistry.



RN 26884-43-5 CAPLUS
 CN Adenosine, 2-amino-N-[(2,4-dichlorophenyl)methyl]- (9CI) (CA INDEX NAME)

Absolute stereochemistry.



L5 ANSWER 232 OF 233 CAPLUS COPYRIGHT 2008 ACS on STN
 AN 1969:115505 CAPLUS
 DN 70:115505
 OREF 70:121591a, 21594a
 TI N6-Aryalkyl adenosine derivatives
 IN Thiel, Max; Stach, Kurt; Jahn, Werner; Schaumann, Wolfgang; Dietmann, Karl
 PA Boehnninger, C. F., und Boehne G.m.b.H.
 SO S. Africam, 15 pp.
 CODEN: SFXXAB

DT Patent
 LA English

FAN.CNT 1

| PATENT NO. | KIND | DATE | APPLICATION NO. | DATE |
|---------------|-------|----------|-----------------|----------|
| PI ZA 6707414 | ----- | 19680502 | ----- | ----- |
| DE 1670171 | DE | | | |
| FR 1550512 | FR | | | |
| GB 1145789 | GB | | | |
| US 3506643 | | 19700414 | US | 19671018 |
| PRAI DE | | 19661209 | | |
| DE | | 19670711 | | |

OS MARPAT 70:115505

GI For diagram(s), see printed CA Issue.

AB The title compds. (1), where halogen, alkyl, alkoxy, F3C or alkylthio, or two substituents may be H or a methylenedioxy, are prepared from the corresponding D-ribosides and benzylamines, or from the corresponding N'-substituted adenosine derivs. Thus, 8.2 g. tri-O-acetyl-6-chloro-9- β -D-ribosyl-9-H-purine and 7.2 g. 2-ClC6H4CH2NH2 in 120 cc. iso-ProH were refluxed 2 hrs., worked up and the residue dissolved in 100 cc. MeOH, 10 cc. N NaOH solution added and the mixture refluxed 1 hr. to yield 4 g. I (R = 2-Cl), m. 182-3°. The following I were similarly prepared (R and m.p. given): 3,4-Cl2, 182-3°; 4-MeO, 146-7°; 3,4-MeO2, 135-6°; 3,4,5-(MeO)3, 118-19°; 2,6-Cl2, 207-9°; 4-Cl, 174-5°; 3-Cl1, 168-9°; 2-MeO, 147-8°; 2-Me, 157-8°; 3,5-(MeO)2, 191-2°; 2-MeS, 127-8°; 2-F3C, 160-1°; and 3-F3C, 111-12°. To a suspension of 10 g. 2',3'-O-isopropylideneadenosine in 200 cc. MeCN, 10 g. p-BrC6H4Br was added and the mixture refluxed 24 hrs. with stirring. The precipitate which formed was filtered off, dissolved in 150 cc. MeOH and an equal volume 2N NaOH solution was added. The mixture was heated on a steam bath 20 min., extracted with CHCl3, evaporated, and the residue dissolved in 200 cc. HCO2N. Water was added until the mixture became cloudy. The mixture was left standing 1 day at ambient temperature, after which it was evaporated in vacuo, and the residue made weakly alkaline with an aqueous solution of concentrated NH3 to yield 5.8 g. I (R = 4-Br), m. 168-9°. I exhibit an effect on blood vessels and circulation.

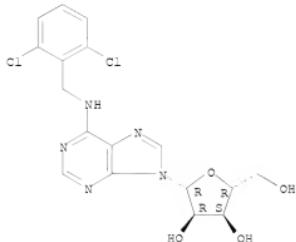
IT 23660-95-9P 23660-96-0P 23660-97-1P

10/540,993

23660-98-2P 23660-99-3P 23661-00-9P
23661-01-0P 23661-03-2P 23666-23-1P
23666-24-2P 23666-25-3P 23666-26-4P
23666-27-5P 23707-32-6P 23707-33-7P
RL: SPM (Synthetic preparation); PREP (Preparation)
(preparation of)

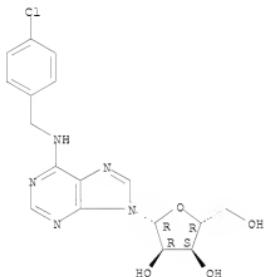
RN 23660-93-9 CAPLUS
CN Adenosine, N-[(2,6-dichlorophenyl)methyl]- (9CI) (CA INDEX NAME)

Absolute stereochemistry.



RN 23660-96-0 CAPLUS
CN Adenosine, N-[(4-chlorophenyl)methyl]- (CA INDEX NAME)

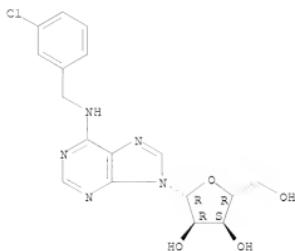
Absolute stereochemistry.



RN 23660-97-1 CAPLUS
CN Adenosine, N-[(3-chlorophenyl)methyl]- (CA INDEX NAME)

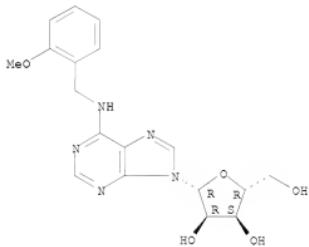
Absolute stereochemistry.

10/540,993



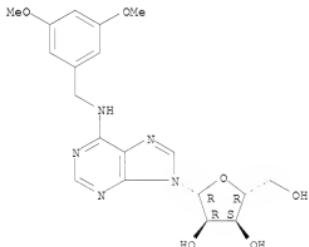
RN 23660-98-2 CAPLUS
CN Adenosine, N-[2-methoxyphenyl)methyl]- (CA INDEX NAME)

Absolute stereocchemistry.



RN 23660-99-3 CAPLUS
CN Adenosine, N-[3,5-dimethoxyphenyl)methyl]- (CA INDEX NAME)

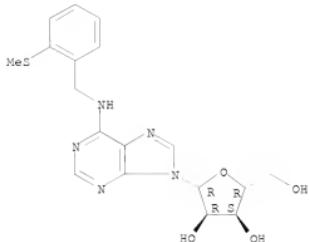
Absolute stereocchemistry.



RN 23661-00-9 CAPLUS
CN Adenosine, N-[o-(methylthio)benzyl]- (SCI) (CA INDEX NAME)

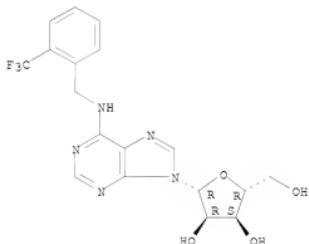
Absolute stereocchemistry.

10/540,993



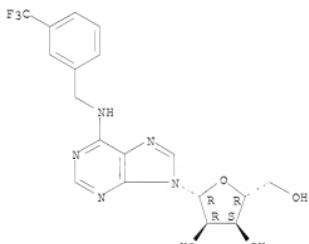
RN 23661-01-0 CAPLUS
CN Adenosine, N-[2-(trifluoromethyl)phenyl]methyl- (CA INDEX NAME)

Absolute stereochemistry.



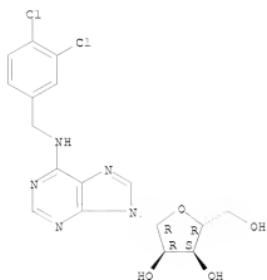
RN 23661-03-2 CAPLUS
CN Adenosine, N-[3-(trifluoromethyl)phenyl]methyl- (CA INDEX NAME)

Absolute stereochemistry.



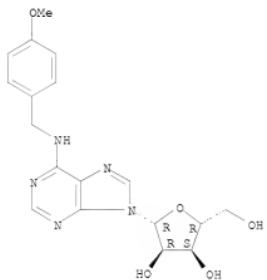
RN 23666-23-1 CAPLUS
CN Adenosine, N-[3,4-dichlorophenyl]methyl- (CA INDEX NAME)

Absolute stereochemistry.



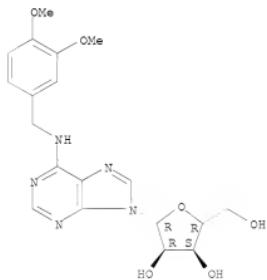
RN 23666-24-2 CAPLUS
CN Adenosine, N-[(4-methoxyphenyl)methyl]- (CA INDEX NAME)

Absolute stereocchemistry.



RN 23666-25-3 CAPLUS
CN Adenosine, N-[(3,4-dimethoxyphenyl)methyl]- (CA INDEX NAME)

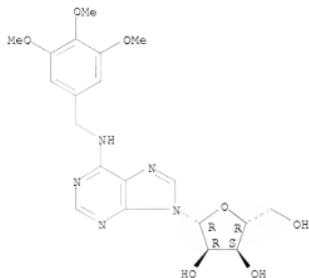
Absolute stereocchemistry.



10/540,993

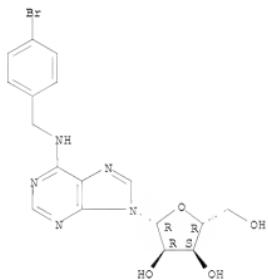
RN 23666-26-4 CAPLUS
CN Adenosine, N-[(3,4,5-trimethoxyphenyl)methyl]- (9CI) (CA INDEX NAME)

Absolute stereochemistry.



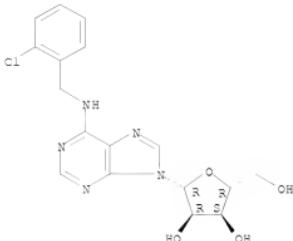
RN 23666-27-5 CAPLUS
CN Adenosine, N-[(4-bromophenyl)methyl]- (CA INDEX NAME)

Absolute stereochemistry.



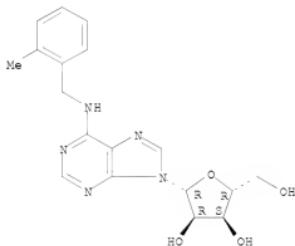
RN 23707-32-6 CAPLUS
CN Adenosine, N-[(2-chlorophenyl)methyl]- (CA INDEX NAME)

Absolute stereochemistry.



RN 23707-33-7 CAPLUS
 CN Adenosine, N-[(2-methylphenyl)methyl]- (CA INDEX NAME)

Absolute stereocchemistry.



LS ANSWER 233 OF 233 CAPLUS COPYRIGHT 2008 ACS on STN
 AN 1969:88212 CAPLUS
 DN 70:88212
 OREF 70:16513a
 TI Adenosines
 IN Kampe, Wolfgang; Thiel, Max; Stach, Kurt; Schaumann, Wolfgang; Dietmann, Karl
 Boehreinger, C. F., und Soehne G.m.b.H.
 SO S. Africam, 35 pp.
 CODEN: SFXKAB

DT Patent
 LA English
 FAN.CNT 1

| PATENT NO. | KIND | DATE | APPLICATION NO. | DATE |
|---------------|-------|----------|-----------------|-------|
| ----- | ----- | ----- | ----- | ----- |
| PI ZA 6707630 | | 19680425 | | |
| DE 1670175 | | | DE | |
| FR 1558462 | | | FR | |
| GB 1143150 | | | GB | |

PRAI DE 19661221
 GI For diagram(s), see printed CA Issue.
 AB A mixture of 4.5 g. tri-O-acetyl-2,6-dichloro-9-(β -D-ribofuranosyl)purine, 2.03 g. D-1-phenyl-2-amino propane, and 2.02 g. Et₃N was refluxed 2 hrs. in 50 ml. iso-ProOH, evaporated in vacuo, and taken up in Et₂O-H₂O, the ether phase washed twice with water, dried, and evaporated, the residue mixed with 40 ml. MeOH saturated with NH₃, the mixture kept overnight at room temperature, treated with activated charcoal, and filtered, the filtrate evaporated, the residue dissolved in EtOAc, ligroine added dropwise with stirring, and the precipitate filtered off, washed with ligroine and dried to

give 4% 2-chloro-1-(D-1-phenyl-2-propyl)-adenosine, m. 65° (decomposition). Similarly prepared I (RI = Cl) were (R, m.p., and % yield given): DL-PhCH2CHMe, 64-6° (chromatog. on silica gel with 6:1 CHCl₃-MeOH), 66; p-ClC₆H₄CH₂, 85-7°, 81; o-ClC₆H₄CH₂, 80-3° (chromatog. on silica gel with 6:1 CHCl₃-MeOH), 42; m-ClC₆H₄CH₂, 65-7° (chromatog.), 23; PhCH₂, 149-52° (benzene-EtOAc), 51; Ph-CH₂CH₂, 87-9° (decomposition) (chromatog.), 54; PhMeCH₂, 102-3° (decomposition) (chromatog.), 34; trans-2-phenylcyclopropyl, 118-20° (chromatog.), 36; Pr, 97-100° (decomposition) (chromatog.), 44; iso-Bu, 168-70° (EtOAc), 20; allyl, 123-6°, 68; iso-Pr, 92-5° (decomposition) (chromatog.), 64; L-threo-PhCH(OH)CHMe, 97-100° (MeOH), 34; L-erythro-PhCH(OH)CHMe, 130-2° (MeCN), 68; m-MeC₆H₄OCH₂CH(OH)CH₂, 84-6° (chromatog.), 45; 2-phenylcyclopentyl, 107-10° (chromatog.), 52; 2-phenylcyclohexyl, 108-11° (chromatog.), 30; o-MeC₆H₄CH₂, 106-9° (chromatog.), 43; 3,5-(MeO)₂C₆H₃CH₂, 187-9° (MeOH), 44; sec-Bu, 102-4° (chromatog.), 33; 2-hydroxypropyl 3-(*o*-naphthyl)oxy, 120-3°, (chromatog.), 34; L-(+)-threo-PhCH(OH)-CHCH₂OH, 80-2° (chromatog.), 55; L-PhCH₂CHMe, 94-6° (chromatog.), 62; o-MeC₆H₄CH₂, 103-5° (chromatog.), 52; 2-phenylcyclohexyl, 100-3° (chromatog.), 41; DL-m-MeC₆H₄-CH(OH)CH₂, 84-9° (chromatog.), 38; MeZn(CH₂)₅, 103-5° (chromatog.), 34; DL-PhCH₂CHMe, 98-101° (chromatog.), 45; D-PhCH₂CHMeOH, 102-4° (chromatog.), 43; m-MeC₆H₄CH₂CH₂, 86-9° (chromatog. on silica gel with 1:1 CHCl₃-MeOH), 54; DL-[3,4-(MeO)₂C₆H₃CH₂]CHMe, 104-6° (chromatog.), 21; DL-(m-MeC₆H₄CH₂)₂, 102-5° (chromatog.), 35; L-PhCH₂CHMe, 108-10° (chromatog.), 36; 3, *m*-HOCH₂CH₂, 158-61° (MeCN), 25. Similarly prepared I (RI = NH₂) were (purine starting material, R, m.p., and % yield given): 2-amino-6-bromo-9-(*D*-ribofuranosyl)purine, o-MeC₆H₄CH₂, -, -; 2-amino-6-bromonucleobase, PhCH₂, 92° (decomposition), 29. An ice-cooled solution of 10 g. NaNO₂ in 140 ml. H₂O was added with stirring over 20 min. to an ice cooled solution of 20 g. 2-amino-6-benzylthio-9-(*D*-ribofuranosyl)purine in 300 ml. HOAc, the mixture kept 1 hr. at 0° and overnight at room temperature and evaporated in vacuo, the residue washed 2-3 times with 50-100 ml. portions of water, evaporated in vacuo, the residue suction filtered, the solid washed with H₂O, dissolved in MeOH, and repprted. with H₂O to give 75% 6-benzylthio-2-hydroxy-9-(*D*-ribofuranosyl)purine (II), m. 137-9°. A solution of 15 g. II in 200 ml. dioxane saturated with NH₃ was heated in a glass autoclave 6 hrs. at 60° and evaporated in vacuo and the residue treated with activated charcoal to give 50% I (R = Me, RI = OH), m. 185-90° (H₂O). Similarly prepared was 33% I (R = allyl, RI = OH), m. 220-2° (decomposition) (iso-PrOH). Other I (RI = OH) were prepared from 3.9 g. II refluxed 2-5 hrs. with an amine in 50 ml. anhydrous dioxane or iso-PrOH (R, m.p., and % yield given): o-ClC₆H₄CH₂, 170-2° (decomposition) (PrOH), 25; m-ClC₆H₄CH₂, 152-5° (iso-PrOH), 39; p-ClC₆H₄CH₂, 208-10° (decomposition), 78; p-MeC₆H₄CH₂, 166-8° (decomposition), 27; PhCH₂, 160-2° (iso-PrOH), 37; PhCH₂CH₂, 159-61° (BuOH), 49; trans-2-phenylcyclopropyl, 153-6° (decomposition) (iso-PrOH), 27.5; Pr, 235-40°, 64; sec-Bu, 214-16° (decomposition) (iso-PrOH), 26°; L-PhCH₂-CHMe, 148-50°, 38; D-PhCH₂CHMe, 220-2° (iso-PrOH), 23; o-MeC₆H₄CH₂, 180-2° (decomposition) (iso-PrOH), 33; PhCH₂CH(OH)CH₂, 145-7° (iso-PrOH), 32; 2-hydroxy-3-(*o*-naphthyl)oxy-propyl, 152-4° (iso-PrOH), 21; PhCH(OH)CH₂, 217-19° (iso-PrOH), 37; m-MeC₆H₄OCH₂CH(OH)CH₂, 146-9° (iso-PrOH), 40. A solution of 5.3 g. NaNO₂ in 10 ml. H₂O was added with ice-cooling to a mixture of 5.0 g. I (R = o-MeC₆H₄CH₂, RI = NH₂) in 50 ml. glacial HOAc, the mixture kept overnight at room temperature and evaporated in vacuo, the residue taken up in CHCl₃-H₂O, phase dried and evaporated in vacuo to give I (R = o-MeC₆H₄CH₂, RI = OH), m. 150-2° (PrOH). Similarly prepared was I (R = PhCH₂, RI = OH), m. 159-61° (iso-PrOH).

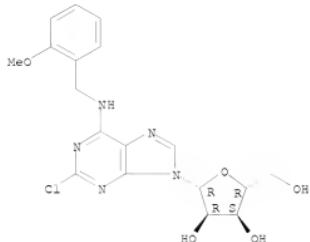
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 23559-57-1P 23559-61-7P 23559-62-8P
 23605-75-6P

RL: SPP (Synthetic preparation); PREP (Preparation)
 (preparation of)

RN 23541-34-6 CAPLUS
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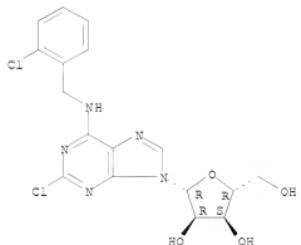
Absolute stereochemistry.

10/540, 993



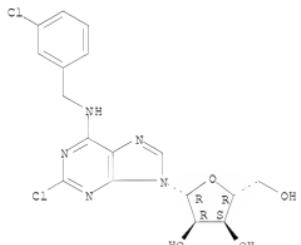
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CN Adenosine, 2-chloro-N-[(2-chlorophenyl)methyl]- (9CI) (CA INDEX NAME)

Absolute stereochemistry.



RN 23558-61-4 CAPLUS
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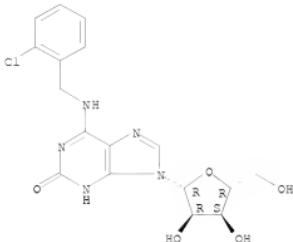
Absolute stereochemistry.



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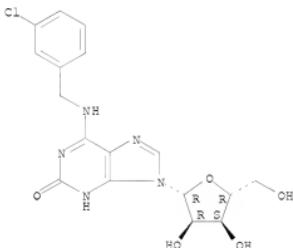
Absolute stereochemistry.

McIntosh



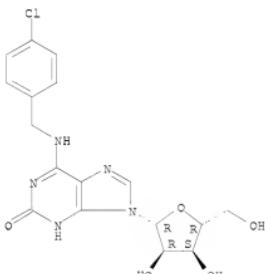
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 CN Adenosine, N-[(3-chlorophenyl)methyl]-1,2-dihydro-2-oxo- (9CI) (CA INDEX
 NAME)

Absolute stereochemistry.



RN 23558-71-6 CAPLUS
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 NAME)

Absolute stereochemistry.

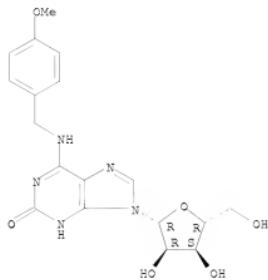


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10/540, 993

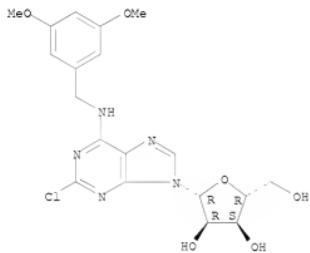
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Absolute stereocchemistry.



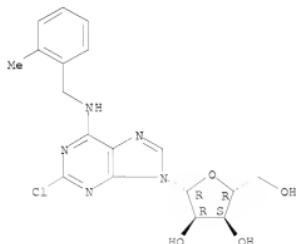
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CN Adenosine, 2-chloro-N-[(3,5-dimethoxyphenyl)methyl]- (9CI) (CA INDEX NAME)

Absolute stereocchemistry.



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CN Adenosine, 2-chloro-N-[(2-methylphenyl)methyl]- (9CI) (CA INDEX NAME)

Absolute stereocchemistry.

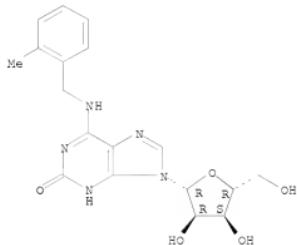


McIntosh

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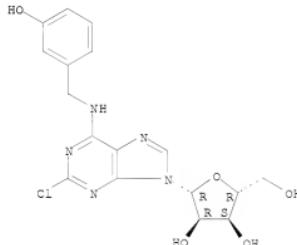
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Absolute stereochemistry.



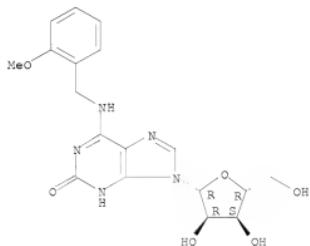
RN 23559-61-7 CAPLUS
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Absolute stereochemistry.



RN 23559-62-8 CAPLUS
CN Adenosine, 1,2-dihydro-N-[(2-methoxyphenyl)methyl]-2-oxo- (9CI) (CA INDEX NAME)

Absolute stereochemistry.



McIntosh

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RN 23605-75-6 CAPLUS
CN Adenosine, 2-chloro-N-[(4-chlorophenyl)methyl]- (9CI) (CA INDEX NAME)

Absolute stereochemistry.

